

Scientific and Technical Information Center

SEARCH REQUEST FORM

252/875

Requester's Full Name: Cecilia Jaisle Examiner #: 82615 Date: 3-26-08
 Art Unit: 1624 Phone Number: 202-941-3451 Serial Number: 10-359875

Location (Building/Room): REMA 202 (Mailbox #): 5018 Rights Format Preferred (check): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: See Bib Data Sheet M9

Inventors (please provide full names): _____

Earliest Priority Date: _____

Staple/Envelope: _____

Please provide a detailed description of your invention including any specific features which would distinguish it from other inventions. Include the elected species or structures, formulas, algorithms, processes, and physical items, and compare with the concept or utility of the invention. Be sure to include any trade secrets or markings (like, examples of unique writing, initials, etc., etc.).

*For Sequence Searches Only! Please include all pertinent information (parent, child, derivative, or cloned junction numbers) along with the appropriate protein sequence.

See claim is attached. Please do structure search @ and inventors name(s). search. Display results to show identification of source, and R.N #, component names & structure of identified compounds. Search:

Compounds of formula: I where Reng (1) is

N₀) See claim 1 and Figure 1 of Pack
X of Unity

Please call with any questions

STAFF USE ONLY

Type of Search

Vendors used only where applicable

Requester: _____

PA Sequence (A)

OTI _____ DIA

Sequence PA and B: _____

PA Sequence (B)

Quintel/Orbit _____ LexisNexis

Searcher/Reviewer: _____

SIS/PA (B)

Review _____ PPT/MSD/DO

Date Report Prepared Up To: _____

Billing info

In-house sequence system

Date Completed: _____

Completion

Am. Gen. Work _____ Oligomer _____ Sequenator (1)

Searcher/Reviewer & Review Term: _____

PA/PA

Am. Seq. Report _____ RPSL _____ Sequenator (2)

Review Thread: _____

Other

Other Spec(1)

Application No. 10/589,875
Atty. Dkt. No. 074358-0104

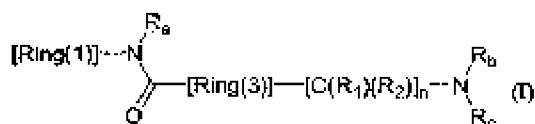
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. - 31. (Cancelled)

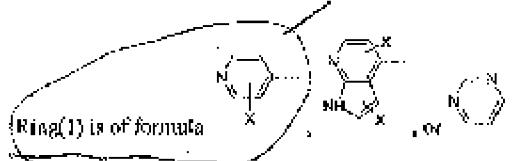
32. (New) A compound according to formula I:



*R_b is
not defined
in Claim 32*

wherein

n is 1;



selected nitrogen hetero
wherein -X may be absent or denotes substitution with 1-4 substituents X that are independently chosen from halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, substituted or unsubstituted aryl, nitro, hydroxyl and a substituted or unsubstituted amino group;

Ring(3) is a 1,3-phenylene, 1,4-phenylene, 1,3-cyclohexylene, or 1,4-cyclohexylene optionally substituted with 1-4 substituents that are independently selected from halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, substituted or unsubstituted aryl; nitro, hydroxyl, an amino group;

R_c is hydrogen; a linear or branched, optionally substituted C₁-C₆-alkyl; a linear or branched, optionally substituted C₁-C₆-alkoxy; or an optionally substituted aryl;

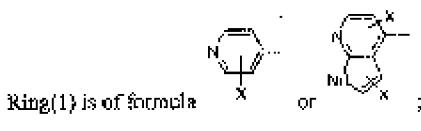
Application No. 10/589,875
Atty. Dkt. No. 074358-0104



R_1 is selected from the group consisting of hydrogen; a substituted or unsubstituted, saturated, unsaturated or aromatic 3-, 4-, 5-, 6-, 7- or 8-membered ring containing carbon atoms and optionally one or two heteroatoms; substituted or unsubstituted C₁-C₆ alkyl and cyano;

or a salt, pharmaceutically acceptable salt, pharmaceutically acceptable prodrug, tautomer, isomer, and/or stereochemical isomer thereof.

33 (New) The compound according to claim 32, wherein



wherin -Y may be absent or denotes substitution with 1-4 substituents Y that are independently chosen from halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, substituted or unsubstituted aryl, nitro, hydroxyl, and an amino group; and



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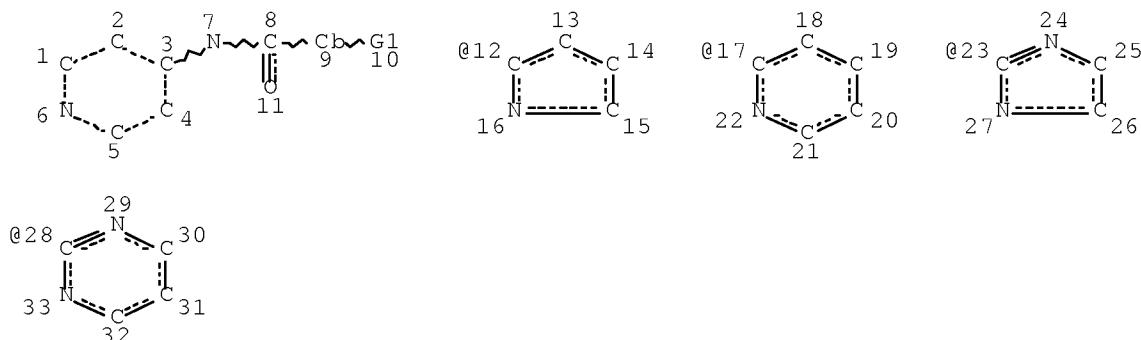
FILE COVERS 1907 - 26 Mar 2008 VOL 148 ISS 13
 FILE LAST UPDATED: 25 Mar 2008 (20080325/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> d que 14

L1 STR



VAR G1=12/17/23/28

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 27
 CONNECT IS E2 RC AT 33
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E6 C AT 9

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L3 32 SEA FILE=REGISTRY SSS FUL L1
 L4 4 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> fil wpix
 FILE 'WPIX' ENTERED AT 10:12:20 ON 26 MAR 2008
 COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE LAST UPDATED: 18 MAR 2008 <20080318/UP>
 MOST RECENT THOMSON SCIENTIFIC UPDATE: 200819 <200819/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of November 2007. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and 20071130/UPIC. <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:

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FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:

http://www.stn-international.com/archive/presentations/DWPAnaVist2_0710.pdf

>>> XML document distribution format now available - See HELP XMLDOC <<<

>>> ECLA Codes and Current US National Classifications have been added -
see NEWS and HELP CHANGE <<<

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Updated PDF files in the following links:

http://www.stn-international.de/stndatabases/details/ico_0801.zip

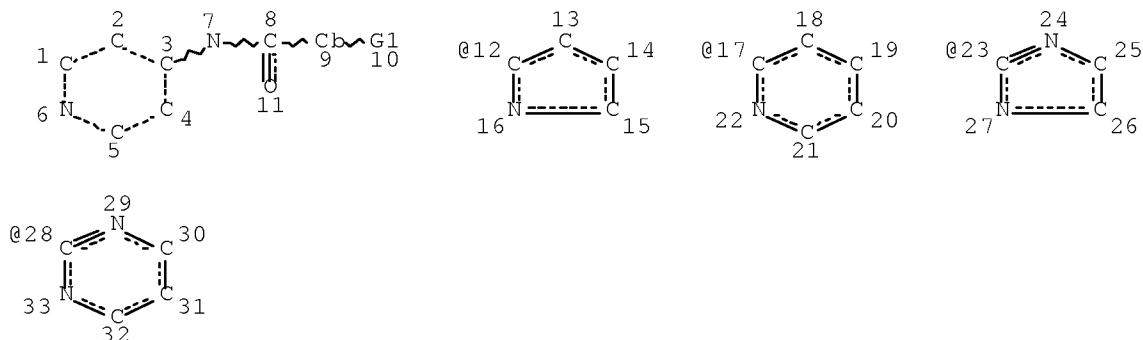
http://www.stn-international.de/stndatabases/details/epc_0801.zip

Supplement of all changed ECLA items:

[<<<](http://www.stn-international.de/stndatabases/details/ecla_0802s.zip)

=> d que 18

L5 STR



VAR G1=12/17/23/28

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 27

CONNECT IS E2 RC AT 33

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 9

GRAPH ATTRIBUTES:

RSPEC 3 12 17 23 28

NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L7 9 SEA FILE=WPIX SSS FUL L5
 L8 3 SEA FILE=WPIX ABB=ON PLU=ON L7/DCR

=> fil marpat

FILE 'MARPAT' ENTERED AT 10:12:27 ON 26 MAR 2008

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FILE CONTENT: 1961-PRESENT VOL 148 ISS 11 (20080321/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
 (COVERAGE TO THESE DATES IS NOT COMPLETE):

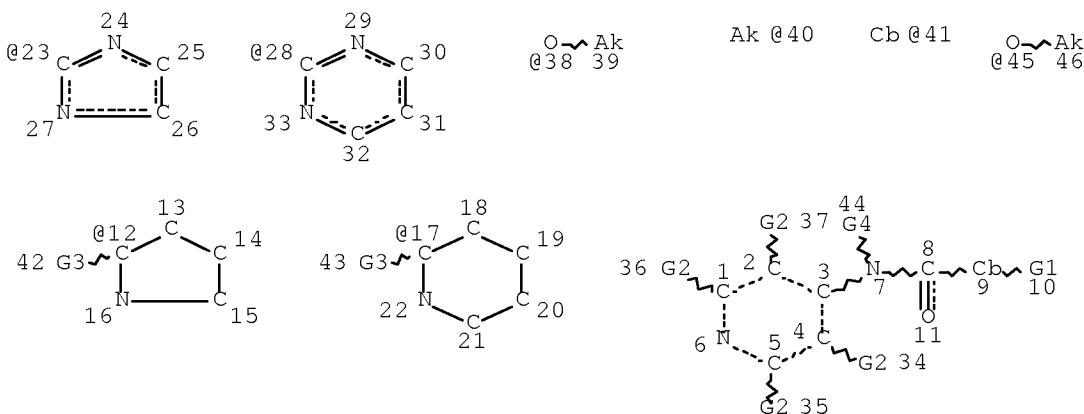
US	2008032917	07 FEB 2008
DE	102006035202	31 JAN 2008
EP	1882693	30 JAN 2008
JP	2008024674	07 FEB 2008
WO	2008021152	21 FEB 2008
GB	2439172	19 DEC 2007
FR	2904316	01 FEB 2008
RU	2316552	10 FEB 2008
CA	2593150	06 JAN 2008

Expanded G-group definition display now available.

Effective December 15th the iteration and answer limits in MARPAT have increased from 100,000 to 200,000 for both on-line and batch searches. For more information on MARPAT search limits, type HELP SLIMITS at an arrow prompt.

=> d que l14

L12 STR



Cb @47

VAR G1=12/17/23/28

VAR G2=H/X/40/38/41/NO2/OH/N

VAR G3=H/CY/AK/CN

VAR G4=H/AK/45/47

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 13

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 15

CONNECT IS E2 RC AT 18

CONNECT IS E2 RC AT 19

CONNECT IS E2 RC AT 20

CONNECT IS E2 RC AT 21

CONNECT IS E2 RC AT 25

CONNECT IS E2 RC AT 26

CONNECT IS E2 RC AT 27

CONNECT IS E2 RC AT 30

CONNECT IS E2 RC AT 31

CONNECT IS E2 RC AT 32

CONNECT IS E2 RC AT 33

CONNECT IS E1 RC AT 39

CONNECT IS E1 RC AT 40

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 41

GGCAT IS UNS AT 47

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 9

GRAPH ATTRIBUTES:

RSPEC 23 28 12 17 3

NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L14 15 SEA FILE=MARPAT SSS FUL L12

=> fil beilst

FILE 'BEILSTEIN' ENTERED AT 10:12:34 ON 26 MAR 2008

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FILE LAST UPDATED ON January 3, 2008

FILE COVERS 1771 TO 2007.

*** FILE CONTAINS 10.119,480 SUBSTANCES ***

>>> PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

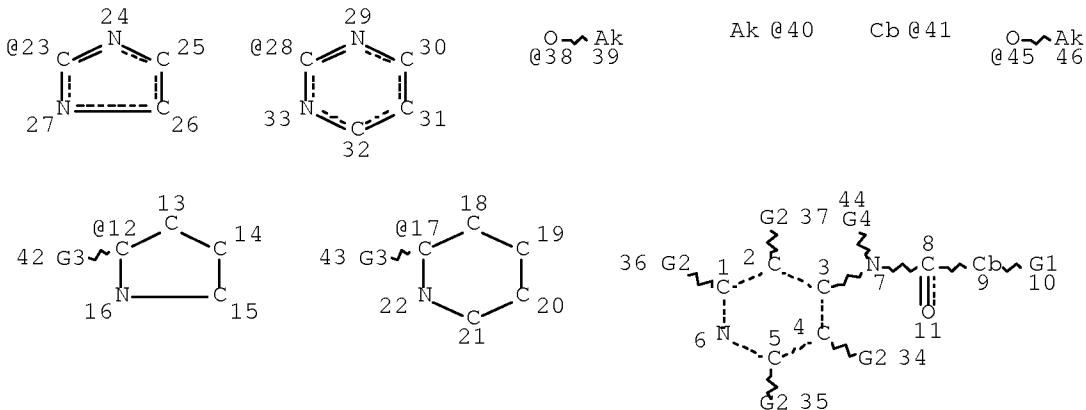
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 * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE *
 * ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
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>>> Price change as of January 1st, 2008: Connect Time and Structure
 Search fees re-introduced. See NEWS and HELP COST <<<

=> d que 116

L12 STR



Cb @47

VAR G1=12/17/23/28
 VAR G2=H/X/40/38/41/NO2/OH/N
 VAR G3=H/CY/AK/CN
 VAR G4=H/AK/45/47

NODE ATTRIBUTES:

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 CONNECT IS E1 RC AT 39
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 DEFAULT MLEVEL IS ATOM
 GGCAT IS UNS AT 41
 GGCAT IS UNS AT 47
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E6 C AT 9

GRAPH ATTRIBUTES:

RSPEC 23 28 12 17 3
 NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE
 L16 0 SEA FILE=BEILSTEIN SSS FUL L12

=> dup rem 14 18 114
 FILE 'CAPLUS' ENTERED AT 10:12:41 ON 26 MAR 2008
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 PROCESSING COMPLETED FOR L4
 PROCESSING COMPLETED FOR L8
 PROCESSING COMPLETED FOR L14
 L24 19 DUP REM L4 L8 L14 (3 DUPLICATES REMOVED)
 ANSWERS '1-4' FROM FILE CAPLUS
 ANSWER '5' FROM FILE WPIX
 ANSWERS '6-19' FROM FILE MARPAT

=> d 124 ibib abs hitstr 1-5;d 124 ibib abs qhit 6-19

L24 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2005:984027 CAPLUS Full-text
 DOCUMENT NUMBER: 143:266951
 TITLE: Preparation of N-(nitrogen-heterocyclyl)carboxamides
 as protein kinase C inhibitors
 INVENTOR(S): Leysen, Dirk Casimir Maria; Defert, Olivier Raynald;
 De Kerpel, Jan Octaaf Antoon; Fourmaintraux, Eric
 Pierre Paul Rene; Arzel, Philippe; De Wilde, Gert
 Jules Hector
 PATENT ASSIGNEE(S): Devgen N. V., Belg.
 SOURCE: PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082367	A1	20050909	WO 2005-IB600	20050218
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				

MR, NE, SN, TD, TG					
EP 1715862	A1	20061102	EP 2005-708700		20050218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,					
IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS					
JP 2007523155	T	20070816	JP 2006-553706		20050218
US 2007191420	A1	20070816	US 2006-589875		20060818
PRIORITY APPLN. INFO.:			GB 2004-3635	A	20040218
			US 2004-545545P	P	20040218
			WO 2005-IB600	W	20050218

OTHER SOURCE(S): MARPAT 143:266951

The invention provides the use of carboxamides ([Ring(1)]- N(Ra)C(O) [Ring(3)]-(CR₁R₂)_n-NR_bRc (I); variables defined below; e.g. 4-(1-aminoethyl)-N-(pyridin-4-yl)benzamide dihydrochloride (II)) or a composition comprising said compound for inhibiting the activity of at least one kinase, other than ROCK kinase, *in vitro* or *in vivo*, pharmaceutical and/or veterinary compns. comprising such compds., medical and veterinary uses of such compds. and the compds. themselves. 44 Examples of I were tested for inhibition of epsilon, gamma, theta and zeta isoforms of protein kinase C. Although the methods of preparation are not claimed, .apprx.60 example preps. are included. For example, II was prepared (92 and 61 %) in 2 steps starting with amide formation between 4-acetylbenzoic acid and 4-aminopyridine to give 4-acetyl-N-(pyridin-4-yl)benzamide, which was condensed with NH₂OH·HCl to give the oxime that was reduced to the amine. For I: Ring(1) is a (un)substituted, saturated, unsatd. or aromatic 4-8-membered ring containing C atoms and at least one H-accepting heteroatom and optionally 1 or 2 further heteroatoms; Ra is a H or a linear or branched, (un)substituted C₁-C₆ alkyl, (un)substituted C₁-C₆ alkoxy or (un)substituted aryl; Ring(3) is a (un)substituted, saturated, unsatd. or aromatic 4-8-membered ring containing C atoms and optionally 1 or 2 heteroatoms; each R₁ or R₂ = H, a (un)substituted, saturated, unsatd. or aromatic 3-8-membered ring containing C atoms and optionally one or two heteroatoms, (un)substituted C₁-C₆ alkyl or cyano; n = 0-2. Rb and Rc are such that the amino group -NR_bRc is essentially in a protonated form at a pH = 5.0-9.0; the distance between the at least one H-accepting heteroatom in Ring(1) and the N(Ra)(Rb) N atom, as determined using a scatter plot, is 11.0-11.8 Å; addnl. details are given in the claims.

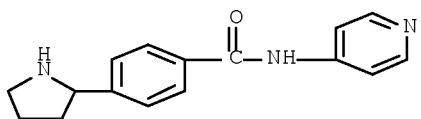
IT 863769-39-5P, N-(Pyridin-4-yl)-4-(pyrrolidin-2-yl)benzamide dihydrochloride 863769-41-9P, 4-(Piperidin-2-yl)-N-(pyridin-4-yl)benzamide dihydrochloride 863769-46-4P, 4-(4,5-Dihydro-1H-imidazol-2-yl)-N-(pyridin-4-yl)benzamide 863769-47-5P, N-(Pyridin-4-yl)-4-(1,4,5,6-tetrahydro-1H-pyrimidin-2-yl)benzamide 863769-70-4P, 4-(Piperidin-2-yl)-N-(1H-pyrrolo[2,3-b]pyridin-4-yl)benzamide dihydropotassium bromide 863770-06-3P, N-(Pyridin-4-yl)-4-(pyrrolidin-2-yl)benzamide 863770-07-4P, 4-(Piperidin-2-yl)-N-(pyridin-4-yl)benzamide 863770-15-4P, 4-(Piperidin-2-yl)-N-(1H-pyrrolo[2,3-b]pyridin-4-yl)benzamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-(nitrogen-heterocyclyl)carboxamides as protein kinase C inhibitors)

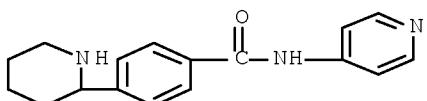
RN 863769-39-5 CAPLUS

CN Benzamide, N-4-pyridinyl-4-(2-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



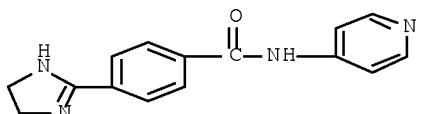
●2 HCl

RN 863769-41-9 CAPLUS
 CN Benzamide, 4-(2-piperidinyl)-N-4-pyridinyl-, dihydrochloride (9CI) (CA INDEX NAME)

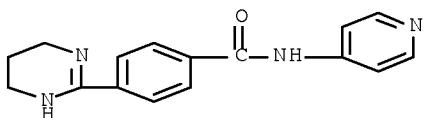


●2 HCl

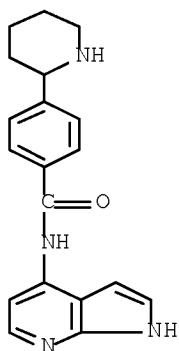
RN 863769-46-4 CAPLUS
 CN Benzamide, 4-(4,5-dihydro-1H-imidazol-2-yl)-N-4-pyridinyl- (CA INDEX NAME)



RN 863769-47-5 CAPLUS
 CN Benzamide, N-4-pyridinyl-4-(1,4,5,6-tetrahydro-2-pyrimidinyl)- (CA INDEX NAME)

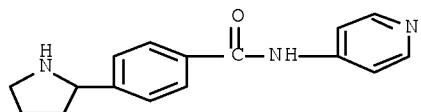


RN 863769-70-4 CAPLUS
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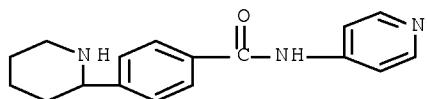


●2 HBr

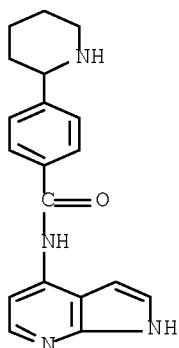
RN 863770-06-3 CAPLUS
 CN Benzamide, N-4-pyridinyl-4-(2-pyrrolidinyl)- (CA INDEX NAME)



RN 863770-07-4 CAPLUS
 CN Benzamide, 4-(2-piperidinyl)-N-4-pyridinyl- (CA INDEX NAME)



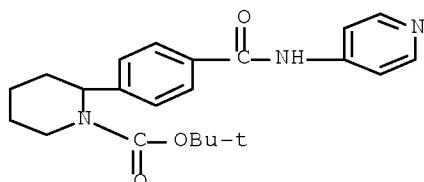
RN 863770-15-4 CAPLUS
 CN Benzamide, 4-(2-piperidinyl)-N-1H-pyrrolo[2,3-b]pyridin-4-yl- (CA INDEX NAME)



IT 863769-44-2P, 4-(N-BOC-piperidin-2-yl)-N-(pyridin-4-yl)benzamide
 863769-74-8P, 2-[4-[[1-[[2-(Trimethylsilyl)ethoxy]methyl]-1H-pyrrolo[2,3-b]pyridin-4-yl]carbamoyl]phenyl]piperidine-1-carboxylic acid benzyl ester 863769-75-9P, 2-[4-[(1H-Pyrrolo[2,3-b]pyridin-4-yl)carbamoyl]phenyl]piperidine-1-carboxylic acid benzyl ester
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of N-(nitrogen-heterocyclyl)carboxamides as protein kinase C inhibitors)

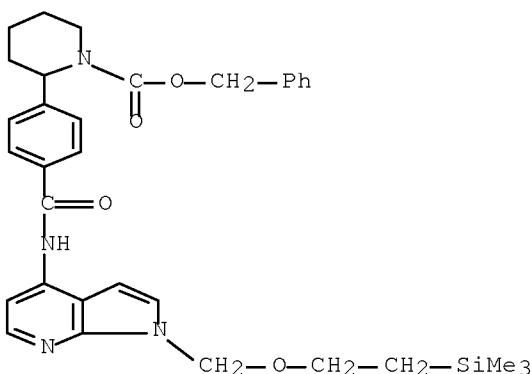
RN 863769-44-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 2-[4-[(4-pyridinylamino)carbonyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



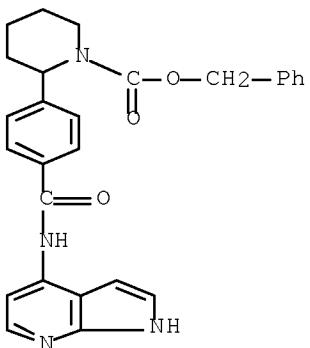
RN 863769-74-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 2-[4-[[1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-pyrrolo[2,3-b]pyridin-4-yl]amino]carbonyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 863769-75-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 2-[4-[(1H-pyrrolo[2,3-b]pyridin-4-ylamino)carbonyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2005:314862 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 142:392289

TITLE: Preparation of (hetero)aryl amides as ion channel ligands

INVENTOR(S): Kelly, Michael; Janagani, Satyanarayana; Wu, Guoxian; Kincaid, John

PATENT ASSIGNEE(S): Renovis, Inc., USA

SOURCE: Brit. UK Pat. Appl., 131 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

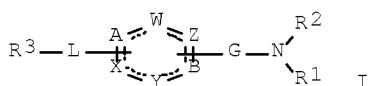
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
----- GB 2406856	----- A	----- 20050413	----- GB 2004-22296	----- 20041007

GB 2406856	B	20051019		
CA 2541299	A1	20050414	CA 2004-2541299	20041007
WO 2005032493	A2	20050414	WO 2004-US33403	20041007
WO 2005032493	A3	20050909		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2005034870	A2	20050421	WO 2004-US33099	20041007
WO 2005034870	A3	20050623		
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US 2005192293	A1	20050901	US 2004-962195	20041007
US 7338950	B2	20080304		
US 2005197364	A1	20050908	US 2004-961817	20041007
GB 2413129	A	20051019	GB 2005-9754	20041007
EP 1685109	A2	20060802	EP 2004-809916	20041007
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004015167	A	20061128	BR 2004-15167	20041007
JP 2007525482	T	20070906	JP 2006-534432	20041007
MX 2006PA03949	A	20060627	MX 2006-PA3949	20060407
PRIORITY APPLN. INFO.: US 2003-508865P P 20031007 US 2004-575937P P 20040601 GB 2004-22296 A3 20041007 WO 2004-US33403 W 20041007				
OTHER SOURCE(S): CASREACT 142:392289; MARPAT 142:392289 GI				



AB Title compds. I [A = N, CR₄, a carbon atom bound to L, or is not an atom; one of W, Z, B, Y, X = carbon atom bound to L if A is not an atom, another of W, Z, B, Y, X = carbon atom bound to G, and each of the remaining W, Z, B, Y and X is independently N or CR₄; L = bond, (CH₂)_n; n = 1-3; G = CO, CS, SO₂; R¹ =

alkyl, heteroalkyl, aryl, etc.; R2 = H, alkyl; R3 = alkyl, heteroalkyl, aryl, etc.; R4 = H, alkyl, etc.] are prepared. For instance, 4-(3-chloropyridin-2-yl)-N-(4-(trifluoromethyl)phenyl)benzamide (II) is prepared from 4-(3-chloropyridin-2-yl)benzoic acid (preparation given) and 4-trifluoromethylaniline (CH₂C₁₂, CO₂C₁₂, DMF). II did not significantly inhibit CYP2C9, CYP2D6 and CYP3A4 but exhibits inhibition for CYP2C19 (IC₅₀ = 26.85 μM) and CYP1A2 (IC₅₀ = 97.45 μM). I are useful in the treatment of pain, inflammation and traumatic injury.

IT 849753-68-0P 849753-89-5P 849754-17-2P

849754-60-5P 849755-02-8P 849755-16-4P

849755-80-2P 849755-93-7P 849757-30-8P

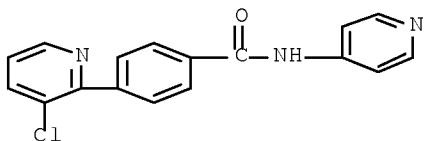
849757-53-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (hetero)aryl amides as ion channel ligands)

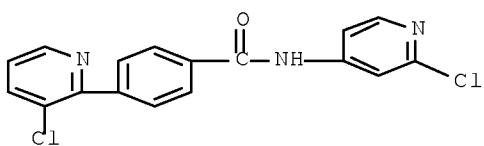
RN 849753-68-0 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-N-4-pyridinyl- (CA INDEX NAME)



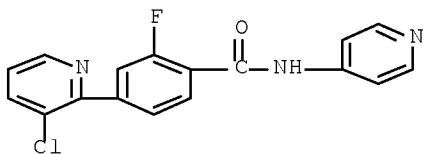
RN 849753-89-5 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 849754-17-2 CAPLUS

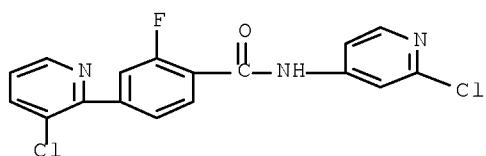
CN Benzamide, 4-(3-chloro-2-pyridinyl)-2-fluoro-N-4-pyridinyl- (CA INDEX NAME)



RN 849754-60-5 CAPLUS

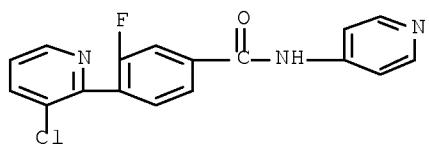
CN Benzamide, N-(2-chloro-4-pyridinyl)-4-(3-chloro-2-pyridinyl)-2-fluoro-

(CA INDEX NAME)



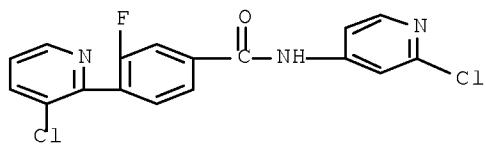
RN 849755-02-8 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-3-fluoro-N-4-pyridinyl- (CA INDEX NAME)



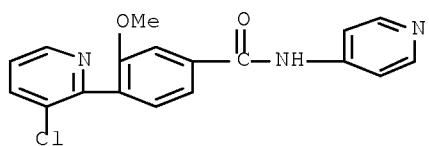
RN 849755-16-4 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



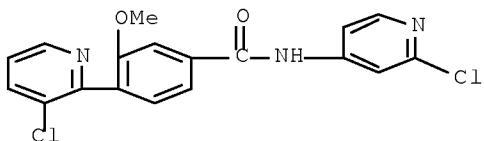
RN 849755-80-2 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-3-methoxy-N-4-pyridinyl- (CA INDEX NAME)



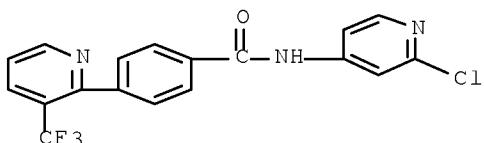
RN 849755-93-7 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-(3-chloro-2-pyridinyl)-3-methoxy- (CA INDEX NAME)



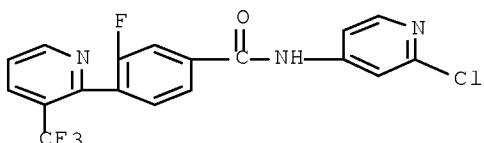
RN 849757-30-8 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-[3-(trifluoromethyl)-2-pyridinyl]-
(CA INDEX NAME)



RN 849757-53-5 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-3-fluoro-4-[3-(trifluoromethyl)-2-pyridinyl]-
(CA INDEX NAME)



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:391508 CAPLUS Full-text

DOCUMENT NUMBER: 145:75997

TITLE: Synthesis, anti-inflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activity evaluation of benzimidazole/benzoxazole derivatives and some Schiff's bases

AUTHOR(S): Sondhi, Sham M.; Singh, Nirupma; Kumar, Ashok; Lozach, Olivier; Meijer, Laurent

CORPORATE SOURCE: Department of Chemistry, Indian Institute of Technology Roorkee (IIT R), Roorkee, 247 667, UA, India

SOURCE: Bioorganic & Medicinal Chemistry (2006), 14(11), 3758-3765

PUBLISHER: CODEN: BMECEP; ISSN: 0968-0896
Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S):
GI

CASREACT 145:75997

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A series of N-(acridin-9-yl)-4-(benzo[d]imidazol/oxazol-2-yl) benzamides has been synthesized by the condensation of 9-aminoacridine derivs. with benzimidazole or benzoxazole derivs. Condensation of 2-hydroxy naphthaldehyde with functionalized diamines leads to the formation of Schiff's bases and not imidazole derivs. All these compds. were characterized by correct FT-IR, 1H NMR, MS and elemental analyses. These compds. were screened for anti-inflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activities. Compds. (I) and a mixture (II, III) showed good anti-inflammatory (35.8% at 50 mg/kg po) activity and good analgesic activity (60% at 50 mg/kg po), resp. Compound (IV) showed significant in vitro activity against CDK-5 ($IC_{50} = 4.6 \mu M$) and CDK-1($IC_{50} = 7.4 \mu M$) and compound (V) showed moderate CDK-5 inhibitory activity ($IC_{50} = 7.5 \mu M$). The other compds. showed moderate anti-inflammatory and analgesic activities.

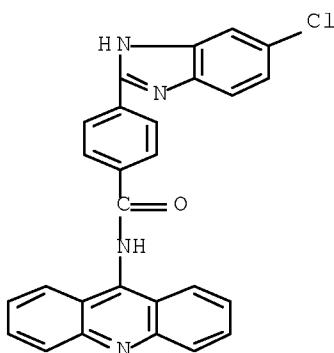
IT 892866-06-7P 892866-07-8P 892866-08-9P
892866-09-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis, anti-inflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activity evaluation of benzimidazole/benzoxazole derivs. and some Schiff's bases)

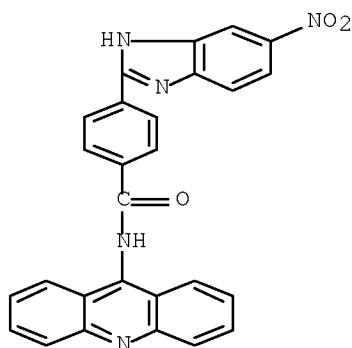
RN 892866-06-7 CAPPLUS

CN Benzamide, N-9-acridinyl-4-(5-chloro-1H-benzimidazol-2-yl)- (CA INDEX NAME)



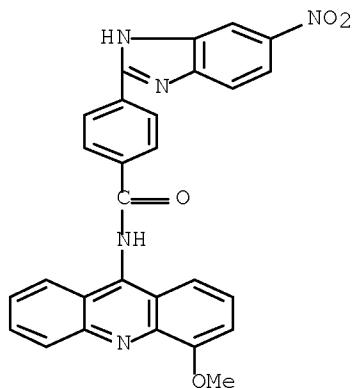
RN 892866-07-8 CAPPLUS

CN Benzamide, N-9-acridinyl-4-(5-nitro-1H-benzimidazol-2-yl)- (CA INDEX NAME)



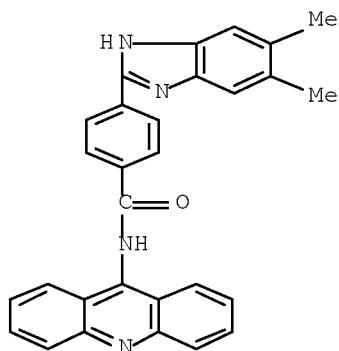
RN 892866-08-9 CAPLUS

CN Benzamide, N-(5-methoxy-9-acridinyl)-4-(5-nitro-1H-benzimidazol-2-yl)-
(CA INDEX NAME)



RN 892866-09-0 CAPLUS

CN Benzamide, N-9-acridinyl-4-(5,6-dimethyl-1H-benzimidazol-2-yl)- (CA INDEX
NAME)

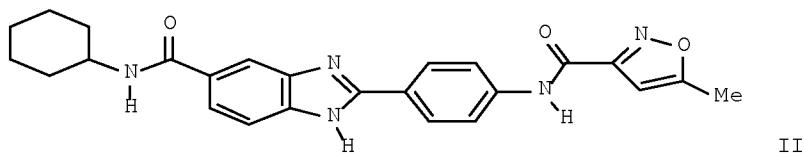


REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:716082 CAPLUS Full-text
 DOCUMENT NUMBER: 137:232653
 TITLE: Preparation of 2-(carboxamidophenyl)benzimidazole-5-carboxamides and analogs as IgE and cell proliferation inhibitors
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Major, Michael W.
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
 SOURCE: PCT Int. Appl., 213 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072090	A1	20020919	WO 2002-US6801	20020228
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002132808	A1	20020919	US 2002-90044	20020227
US 6759425	B2	20040706		
CA 2441177	A1	20020919	CA 2002-2441177	20020228
AU 2002247273	A1	20020924	AU 2002-247273	20020228
EP 1368028	A1	20031210	EP 2002-715052	20020228
EP 1368028	B1	20070815		
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HU 2003003460	A2	20040301	HU 2003-3460	20020228
HU 2003003460	A3	20040728		
CN 1496257	A	20040512	CN 2002-806486	20020228
JP 2004528304	T	20040916	JP 2002-571049	20020228
BR 2002008010	A	20041221	BR 2002-8010	20020228
NZ 528835	A	20050527	NZ 2002-528835	20020228
AT 369853	T	20070915	AT 2002-715052	20020228
ES 2291455	T3	20080301	ES 2002-715052	20020228
AU 2003201363	A1	20030612	AU 2003-201363	20030319
IN 2003KN01125	A	20051014	IN 2003-KN1125	20030905
MX 2003JL00027	A	20040430	MX 2003-JL27	20030910
ZA 2003007916	A	20040903	ZA 2003-7916	20031010
US 2004214821	A1	20041028	US 2004-795006	20040305
US 7282518	B2	20071016		
PRIORITY APPLN. INFO.:				
		US 2001-275260P	P	20010312
		US 2002-90044	A	20020227
		US 1998-86494P	P	19980522
		AU 1999-43120	A3	19990521
		WO 2002-US6801	W	20020228

OTHER SOURCE(S): MARPAT 137:232653
 GI



AB RZZ1R5 [I; R = CONR1R2 and R5 = NR3R4 or CONR3R4 or R = NR1COR2 and R5 = CONR3R4; R1,R2 = H, alkyl, (un)substituted (hetero)aryl, etc.; R3,R4 = H, alkyl, (hetero)aryl, alkanoyl, aroyl, etc.; Z = (un)substituted benzimidazole-n,2-diyl; Z1 = (un)substituted phenylene; n = 4-7] were prepared. Thus, 3,4-(H₂N)C₆H₃CO₂H was cyclocondensed with 4-(O₂N)C₆H₄CHO and the product amidated by cyclohexylamine to give, after reduction and amidation, title compound II. Data for biol. activity of 1 I were given.

IT 459807-86-4P 459807-91-1P 459807-95-5P

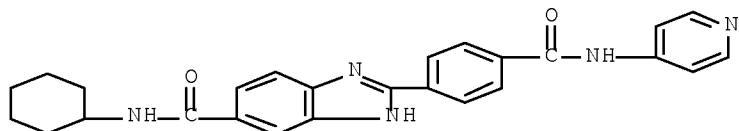
459807-99-9P 459808-03-8P 459808-07-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-(carboxamidophenyl)benzimidazole-5-carboxamides and analogs as IgE and cell proliferation inhibitors)

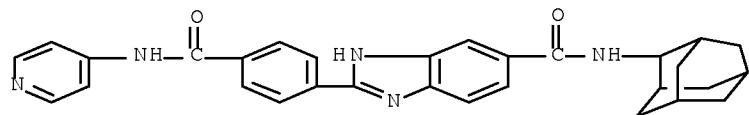
RN 459807-86-4 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-cyclohexyl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



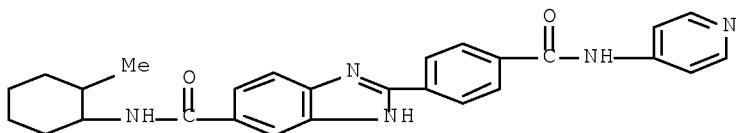
RN 459807-91-1 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, 2-[4-[(4-pyridinylamino)carbonyl]phenyl]-N-tricyclo[3.3.1.13,7]dec-2-yl- (9CI) (CA INDEX NAME)



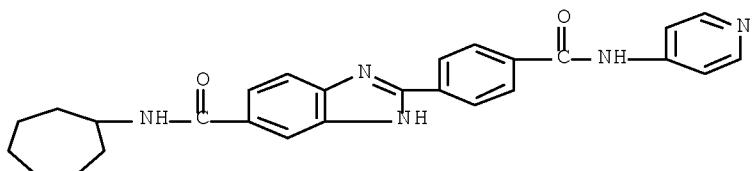
RN 459807-95-5 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-(2-methylcyclohexyl)-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



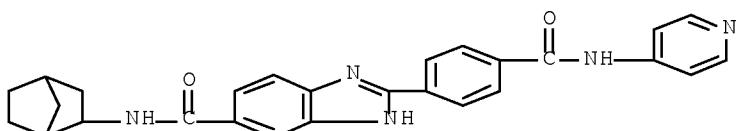
RN 459807-99-9 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-cycloheptyl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



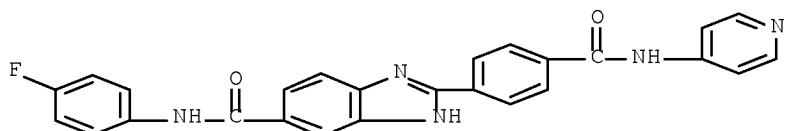
RN 459808-03-8 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-bicyclo[2.2.1]hept-2-yl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



RN 459808-07-2 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-(4-fluorophenyl)-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

10

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 5 OF 19 WPIX COPYRIGHT 2008

THE THOMSON CORP on STN

ACCESSION NUMBER: 2005-716592 [74] WPIX

CROSS REFERENCE: 2005-308639

DOC. NO. CPI: C2005-218279 [74]
 TITLE: New aromatic amide compounds are vanilloid receptor agonists useful for the treatment of e.g. headache, Parkinson's disease, Alzheimer's disease, multiple sclerosis and stroke
 DERWENT CLASS: B02; B03
 INVENTOR: JANAGANI S; KELLY M; KINCAID J; WU G
 PATENT ASSIGNEE: (RENO-N) RENOVIS INC
 COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
GB 2413129	A	20051019	(200574)*	EN	132[6]	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
GB 2413129 A	Div Ex	GB 2004-22296	20041007
GB 2413129 A		GB 2005-9754	20050516

PRIORITY APPLN. INFO: US 2004-575937P 20040601
 US 2003-508865P 20031007

AN 2005-716592 [74] WPIX

CR 2005-308639

AB GB 2413129 A UPAB: 20060125

NOVELTY - Aromatic amide compounds (I) (capable of modifying ion channels in vivo) and their salts, solvates, prodrugs or stereoisomers are new.

DETAILED DESCRIPTION - Aromatic amide compounds of formula (I) (capable of modifying ion channels in vivo) and their salts, solvates, prodrugs or stereoisomers are new.

A = N, CR₄, C bound to L or is not atom (one of W, Z, B, Y, X is C atom bound to L if A is not an atom, another of W, Z, B, Y, X is a C bound to G and each of the remaining W, Z, B, Y and X is N or CR₄);

L = bond or -(CH₂)_n;

n = 1-3;

G = CO, CS or SO₂;

R₁, R₃ = aliphatic (optionally substituted), (hetero)alkyl, (hetero)aryl or (hetero)aralkyl;

R₂ = H or optionally substituted alkyl; and

R₄ = H, alkyl (optionally substituted), acyl, acylamino, alkylamino, alkylthio, alkoxy, alkoxycarbonyl, alkylarylamino, arylalkyloxy, amino, aryl, arylalkyl, sulfoxide, sulfone, sulfanyl, aminosulfonyl, arylsulfonyl, sulfuric acid, sulfuric acid ester, dihydroxyphosphoryl, aminohydroxyphosphoryl, azido, carboxy, carbamoyl, carboxyl, CN, cycloheteroalkyl, dialkylamino, halo, heteroaryloxy, heteroaryl, heteroalkyl, OH, NO₂ or thio.

An INDEPENDENT CLAIM is also included for the preparation of (I).

ACTIVITY - Analgesic; Immunosuppressive; Antiinflammatory; Neuroprotective; Antimigraine; Antiparkinsonian; Nootropic; Cerebroprotective; Vasotropic; Antidepressant; Antimanic; Neuroleptic; Tranquilizer; Eating-Disorders-Gen.; Hypnotic; Anticonvulsant; Gastrointestinal-Gen.; Uropathic; Respiratory-Gen.; Antiallergic; Antiasthmatic; Antiarthritic; Antirheumatic; Osteopathic; Cardiant; Ophthalmological; Antiarteriosclerotic; Antipruritic; Antipsoriatic; Endocrine-Gen.; Anorectic; Cytostatic; Vulnerary; Nephrotropic.

MECHANISM OF ACTION - Vanilloid receptor (VR-1) agonist. (I) were tested for VR-1 agonist activity using imaging assay. The result showed that the percentage inhibition value of (I) was 75%.

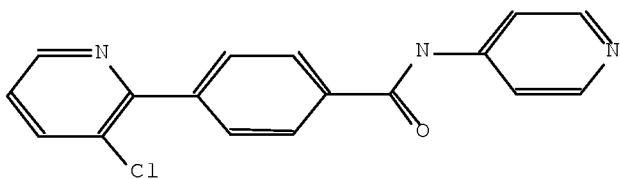
USE - (I) are useful for the treatment, prevention, amelioration or management of pain condition, autoimmune disease, inflammatory disease or condition, neurological or neurodegenerative disease, pain including acute, inflammatory and neuropathic pain, chronic pain, dental pain, headache including migraine, cluster headache and tension headache, Parkinson's disease, Alzheimer's disease, multiple sclerosis, diseases and disorders mediated by or result in neuroinflammation, traumatic brain injury, stroke, or encephalitis, centrally-mediated neuropsychiatric diseases and disorders including depression, mania, bipolar disease, anxiety, schizophrenia, eating disorders, sleep disorders and cognition disorders, epilepsy and seizure disorders, prostate, bladder and bowel dysfunction, urinary incontinence, urinary hesitancy, rectal hypersensitivity, fecal incontinence, benign prostatic hypertrophy and inflammatory bowel disease, respiratory and airway disease and disorders including allergic rhinitis, asthma and reactive airway disease and chronic obstructive pulmonary disease, diseases and disorders mediated by or result in inflammation including arthritis, rheumatoid arthritis and osteoarthritis, myocardial infarction, autoimmune diseases and disorders, uveitis and atherosclerosis, itch/pruritus, psoriasis, alopecia (hair loss), obesity, lipid disorders, cancer, high blood pressure, spinal cord injury or renal disorders. (I) are useful for the treatment of symptom such as symptoms of exposure to capsaicin, burns or irritation due to exposure to heat, light or burns (all claimed).

ADVANTAGE - (I) exhibited improved aqueous solubility and metabolic stability.

AN.S DCR-1063679

CN.S 4-(3-Chloro-pyridin-2-yl)-N-pyridin-4-yl-benzamide

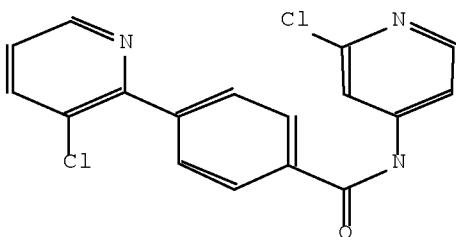
SDCN RAHLOC



AN.S DCR-1063716

CN.S N-(2-Chloro-pyridin-4-yl)-4-(3-chloro-pyridin-2-yl)-benzamide

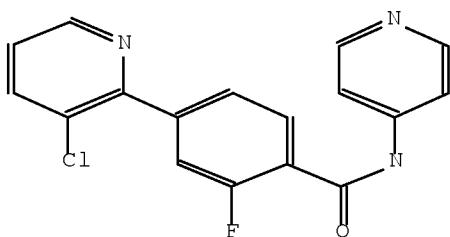
SDCN RAHLPD



AN.S DCR-1063751

CN.S 4-(3-Chloro-pyridin-2-yl)-2-fluoro-N-pyridin-4-yl-benzamide

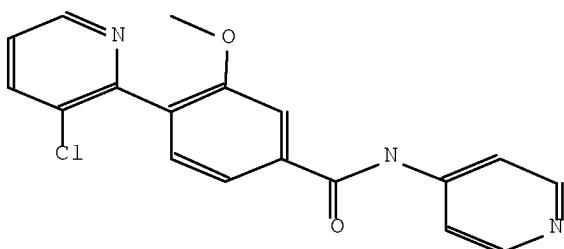
SDCN RAHLQC



AN.S DCR-1170498

CN.S 4-(3-Chloro-pyridin-2-yl)-3-methoxy-N-pyridin-4-yl-benzamide

SDCN RAJTZC



L24 ANSWER 6 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 147:406803 MARPAT [Full-text](#)

TITLE: Preparation of benzenediamine derivatives as

inhibitors of the interactions between MDM2 and p53

INVENTOR(S): Lacrampe, Jean Fernand Armand; Meyer, Christophe; Schoentjes, Bruno; Lardeau, Delphine Yvonne Raymonde; Poncelet, Alain Philippe; Van Hijfte, Luc

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 60pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007107543	A1	20070927	WO 2007-EP52579	20070319

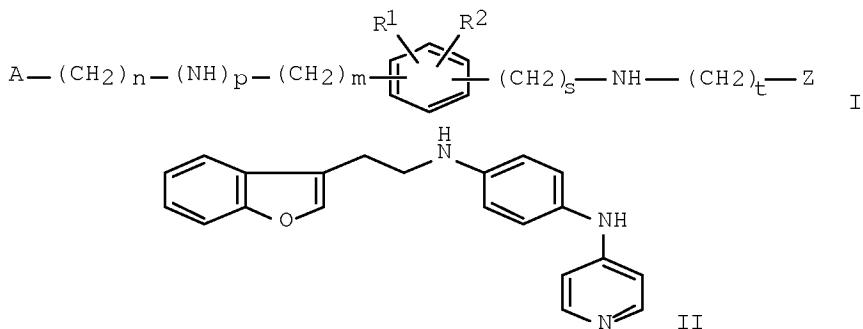
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

EP 2006-111531 20060322

US 2006-784780P 20060322

GI

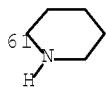


AB The title compds. I [wherein m = 0-2; n = 0-4; p, s, t independently = 0 or 1; R1, R2 independently = H, halo, alkyl, etc.; A = (un)substituted Ph, pyridinyl, pyrrolyl, thiophenyl or furanyl; Z = certain (un)substituted nitrogen heteroaryl] and N-oxides, salts, or stereoisomers thereof are prepared as inhibitors of the interactions between MDM2 and p53. For example, compound II was prepared in a multi-step synthesis. I showed inhibitory effect in both p53 ELISA assay and cell proliferation assay. The invented compds. are useful for the treatment of disorders mediated by p53-MDM2 interactions.

MSTR 1

G1—3G25—G12—G13

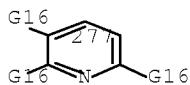
G1 = 61



G12 = 366-334 367-5

³⁶S⁶O⁵NH⁴

G13 = 277



G25 = phenylene (opt. substd. by (1-2) G7)

Patent location: claim 1

Note: or N-oxides, addition salts

Note: also incorporates claim 10, formula (VIII)

Stereochemistry: or stereochemically isomeric forms

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 7 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 147:95431 MARPAT Full-text

TITLE: Benzamides as TRPV1 modulators and their preparation and a pharmaceutical composition comprising an amide derivative

INVENTOR(S): Kai, Hiroyuki

PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan

SOURCE: PCT Int. Appl., 90pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

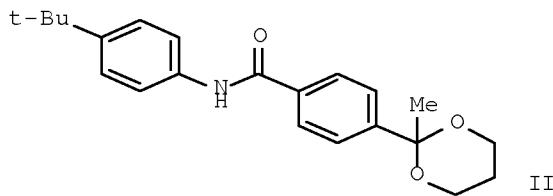
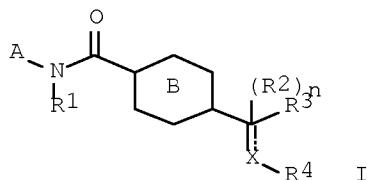
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007069773	A1	20070621	WO 2006-JP325313	20061213
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,				

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

JP 2005-361643 20051215

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AB The invention provides a modulator of the TRPV1-receptor function, comprising a compound of the formula I. Compds. of formula I wherein A is (un)substituted (mono/bi)cyclic carbocycle, and (un)substituted (mono/bi)heterocycle; ring B is (un)substituted benzene, (un)substituted 6-membered heteroarom. ring containing N atom; R1 is H, (un)substituted lower alkyl and (un)substituted acyl; dashed line is a single or double bond; when dashed bond is a double bond, then n is 0; X is =CRx, and =N; R3 and R4 are taken together to form (un)substituted 5- to 6-membered nonarom. heterocycle; Rx is H, halo, lower (halo)alkyl, lower (halo)alkoxy and acyl; or X is =N; R3 is lower alkyl; R4 is lower alkoxy and aryloxy; when dashed bond is single bond, n is 1; R2 is H, (un)substituted lower alkyl; X is O, S, and NH and derivs.; R3 and R4 taken together for forum and (un)substituted nonarom. 5-to 6-membered heterocycle; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by amidation of 4-acetylbenzoic acid with 4-tert-butylaniline; the resulting N-(4-tert-butylphenyl) 4-acetylbenzamide underwent acetalization with 1,3-propanediol to give compound II. All the invention compds. were evaluated for their TRPV1 modulatory activity. From the assay, it was determined that compound II exhibited an IC50 value of 297 nM.

MSTR 1

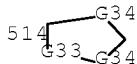
G1—G2—G3(O)—G4

G1 = pyridyl (opt. substd.)
G2 = NH
G3 = phenylene (opt. substd. by 1 or more G32)

G4 = 22

2^{G17}₂₂^{G13}₂₅

G17 = 514-4 514-25



G33 = NH (opt. subst.)

G34 = CH₂ (opt. subst.)

Patent location: claim 1

Note: or pharmaceutically acceptable salts or solvates

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:273992 MARPAT Full-text

TITLE: Cyclohexenylamine derivatives and as inhibitors of dipeptidyl peptidase-iv (DPP-IV) and their preparation, pharmaceutical compositions and use in the treatment of various diseases

INVENTOR(S): Pei, Zhonghua; Geldern, Thomas Von; Madar, David J.; Li, Xiaofeng; Basha, Fatima; Yong, Hong; Longenecker, Kenton L.; Backes, Bradley J.; Judd, Andrew S.; Mulhern, Matthew M.; Stewart, Kent D.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 51pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

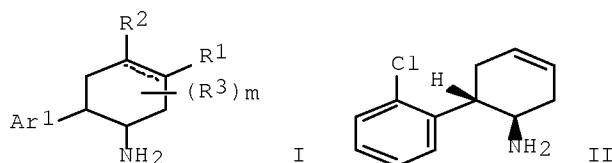
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

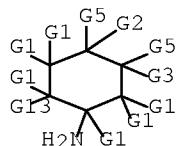
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007049596	A1	20070301	US 2006-510451	20060825
WO 2007027651	A2	20070308	WO 2006-US33620	20060825
WO 2007027651	A3	20070531		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRIORITY APPLN. INFO.:			US 2005-712646P	20050830

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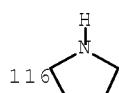


AB The invention relates to compds. of formula I, which inhibit dipeptidyl peptidase IV (DPP-IV) and are useful for the prevention or treatment of diabetes, especially type II, as well as hyperglycemia, metabolic syndrome, hyperinsulinemia, obesity, atherosclerosis, various immunomodulatory diseases, and other diseases. Compds. of formula I wherein R1 is H, (halo)alkyl, (hetero)aryl, heterocyclyl, cycloalkyl, cycloalkenyl, etc.; R2 is H, (halo)alkyl, cycloalkyl, heterocyclyl, (hetero)aryl, heterocycloalkyl, etc.; R3 is H and (halo)alkyl; dotted line is optional double bond; Ar1 is (un)substituted (hetero)aryl; and their pharmaceutically acceptable salts, metabolites, prodrugs, salt of prodrugs, and combinations thereof, are claimed. Example compound II was prepared by cyclization of 1,3-butadiene with 2-chloro- β -nitrostyrene; the resulting trans-1-chloro-2-(6-nitrocyclohex-3-en-1-yl)benzene underwent reduction to give compound II. All the invention compds. were evaluated for their DPP-IV inhibitory activity.

MSTR 1



G5 = 26 / 46 / 116

2^{G7}—G9—G11 4^{G(O)}—G12

G9 = NH
 G12 = 50 / 52 / 136

5^{G9}—G8 5^{G9}—G7—G8 1^{G9}—G14

G14 = pyridyl (opt. substd.)

Patent location: claim 1

Note: substitution is restricted

Note: additional oxo and ring formation also claimed

Note: or pharmaceutically acceptable salts, metabolites, prodrugs, salts of prodrugs, or combinations

L24 ANSWER 9 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:45520 MARPAT Full-text

TITLE: Oxadiazole derivatives as positive allosteric modulators of metabotropic glutamate receptors and their preparation, pharmaceutical compositions and use in the treatment of diseases

INVENTOR(S): Farina, Marco; Gagliardi, Stefania; Le Poul, Emmanuel; Palombi, Giovanni; Rocher, Jean-Philippe

PATENT ASSIGNEE(S): Addex Pharmaceuticals SA, Switz.

SOURCE: PCT Int. Appl., 110pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

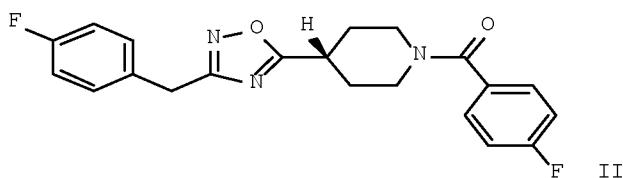
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006129199	A1	20061207	WO 2006-IB1882	20060517
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006253863	A1	20061207	AU 2006-253863	20060517
CA 2609513	A1	20061207	CA 2006-2609513	20060517
EP 1896464	A1	20080312	EP 2006-779844	20060517
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
KR 2008017040	A	20080225	KR 2007-729430	20071217
PRIORITY APPLN. INFO.:			GB 2005-10139	20050518
			WO 2006-IB1882	20060517

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AB The invention relates to compds. which are heterocyclic derivs. of formula I. Compds. of formula I wherein W is (un)substituted C5-7 (hetero)cycloalkyl, and (un)substituted C5-7 heterocycloalkenyl; P and Y are independently (un)substituted (hetero)cycloalkyl and (un)substituted (hetero)aryl; A is N=N, Et, ethenyl, ethynyl, NHCO and derivs., NHSO₂ and derivs., etc.; B is a single bond, CO-CO-2 alkyl, CO-C2-6 alkenyl, CO₂, etc.; X and Y are independently a bond, NHCO₂ and derivs., (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, c3-7 cycloalkyl, etc.; and their pharmaceutically acceptable salts, hydrates, solvates and N-oxides are claimed. Invention compds. are useful for treating central or peripheral nervous system disorders and other disorders which are affected by the neuromodulatory effect of mGluR5 pos. allosteric modulators such as cognitive decline and also to treat both pos. and neg. symptoms in schizophrenia. Example compound II was prepared by condensation of 4-fluorophenylacetonitrile with hydroxylamine followed by cyclization with (S)-1-Boc-piperidine-3-carboxylic acid; the resulting (S)-3-[3-(4-fluorobenzyl)-[1,2,4]oxadiazol-5-yl]piperidine-1-carboxylic acid tert-Bu ester underwent hydrolysis to give the corresponding piperidine hydrochloride, which underwent amidation with 4-fluorobenzoyl chloride to give compound II. All the invention compds. were evaluated for their pos. allosteric modulator activity of mGluR5. From the assay, it was determined that compound II exhibited an EC₅₀ value of < 1 μM.

MSTR 1A

G1¹-G4⁴-G1¹

G1 = pyridyl (opt. substd.)
G4 = 9-2 10-4

G6-T6⁷

G6 = 59-2 60-10



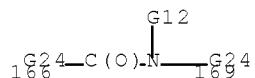
G15 = CH2
 G17 = 1

~~G20-G18~~

G18 = 76

~~G19-G1~~

G19 = 166-1 169-77



G20 = phenylene (opt. substd.)

G24 = bond

Patent location: claim 1

Note: or pharmaceutically acceptable salts, hydrates,
solvates or N-oxides

Note: substitution is restricted

Note: additional derivatization also claimed

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:488668 MARPAT Full-text

TITLE: Pyridine- and pyrimidinecarboxylic acid derivatives and related compounds as IL-12 modulators and their preparation, pharmaceutical compositions, and use for treatment of various autoimmune diseases

INVENTOR(S): Sun, Lijun; Kostik, Elena; Przewloka, Teresa; Ng, Howard P.; Chimmanamada, Dinesh; Demko, Zachary

PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA

SOURCE: PCT Int. Appl., 246 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006053227	A2	20060518	WO 2005-US40952	20051110
WO 2006053227	A3	20060706		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
 KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
 MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

AU 2005304393 A1 20060518 AU 2005-304393 20051110

CA 2586870 A1 20060518 CA 2005-2586870 20051110

US 2006223996 A1 20061005 US 2005-272509 20051110

EP 1819341 A2 20070822 EP 2005-820870 20051110

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
 BA, HR, MK, YU

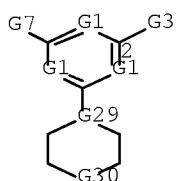
PRIORITY APPLN. INFO.: US 2004-626761P 20041110
 WO 2005-US40952 20051110

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to heterocyclic compds. of formula I, compns. including the compds. and methods of using and methods of making thereof. The compds. (and compns.) are useful, inter alia, in modulating IL-12 production and processes mediated by IL-12. Compds. of formula I wherein X and R1, taken together, are CONR'R''; X is (un)substituted (thio)carbonylamino, (un)substituted amino(thio)carbonyl, C(=NH)NH and derivs., NHC(NH) and derivs., (un)substituted amino(thio)carbonylamino, NHC(=NH)NH and derivs., etc.; R1 is R6-L-R7; R6 is (un)substituted (hetero)cycloalkyl, (un)substituted cyclyl, (un)substituted (hetero)aryl(alkyl), or absent; L is O, S, SO, SO₂, NH and derivs., NHCO and derivs., CONH and derivs., COO or OCO or absent; R7 is H, (un)substituted alkyl, (un)substituted cyclyl, (un)substituted (hetero)cycloalkyl, (un)substituted (hetero)aryl(alkyl) etc; Q, U, and V are independently N or CRg, wherein at least one of Q, U or V is N; R3 is Rg, CHO and derivs., (thio)formyl, (oxy)acyl, sulfanyl(thio)acyl, amino(thio)acyl, C(=NH)H and derivs., etc.; Rg, R2 and R4 are independently H, (un)substituted alkyl(carbonyl), OH and derivs., SH and derivs., NH₂ and derivs., hydroxyalkyl, (thio)formyl, (oxy)(thio)acyl, sulfanyl(thio)acyl, etc.; R' and R'' are independently H, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted (hetero)cyclyl, (un)substituted (hetero)cycloalkyl, (un)substituted (hetero)aryl(alkyl), etc; G is hydrazide, hydrazone, hydrazine, hydroxylamine, oxime, amide, ester, carbonate, carbamate, etc; W is O, S, SO, SO₂, NH and derivs., aminoacyl; m is 0-4; and their pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs are claimed. Example compound II was prepared by substitution of Me 2,4-dichloropyrimidine-6-carboxylate with N-(2-hydroxyethyl)morpholine to give Me 2-chloro-6-[2-(morpholin-4-yl)ethoxy]pyrimidine-6-carboxylate, which reacted with morpholine to give Me 2-morpholino-6-[2-(morpholin-4-yl)ethoxy]pyrimidine-6-carboxylate, which underwent amidation with 5-amino-2,3-dimethylindole to give example compound II. All the invention compds. were evaluated for their IL-12 inhibitory activity. From the assay, numerous of the invention compds. exhibited in vitro IC₅₀ values < 1μM against human PBMC or THP-1 cells.

MSTR 1B

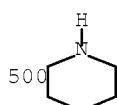


G1 = 7

G2

G3 = 12

G5 = 811-2 812-13

G6 = G25
G7 = G25 / 500G25 = pyridyl
G33 = NH

Patent location:

claim 1

Note: substitution is restricted

Note: additional substitution also claimed

Note: or pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs

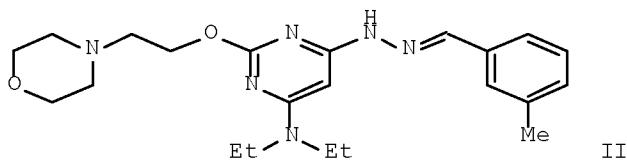
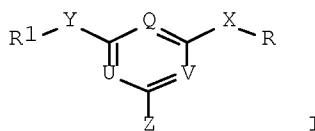
L24 ANSWER 11 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:488685 MARPAT Full-text

TITLE: Heteroaryl compounds, particularly N-heteroaryl hydrazones, their preparation, and their therapeutic use as IL-12 production inhibitors

INVENTOR(S): Sun, Lijun; Zhang, Shijie; Koya, Keizo; Chimmanamada, Dinesh; Li, Hao; James, David; Kostik, Elena
 PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA
 SOURCE: PCT Int. Appl., 172 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

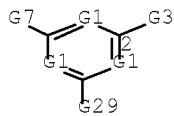
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006053109	A1	20060518	WO 2005-US40706	20051110
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006122156	A1	20060608	US 2005-271704	20051110
PRIORITY APPLN. INFO.:			US 2004-627001P	20041110
GI				



AB The invention is related to the preparation of heteroaryl compds. I [Q, U, V = independently N, CH and derivs.; Z = H, NH₂ and derivs., OH and derivs., (un)substituted cyclo/alkyl, etc.; X = O, S, SO, CO, N:N, NHCO, etc.; R = R'-L'-R''; R' = (un)substituted cycloalkyl, cyclyl, aryl, etc.; L' = O, S, NH and derivs., absent, etc.; R'' = H, OH and derivs., halo, CN, alkyl, aryl, etc.; R1 = (CR₂R₄)_n-G-R3; Y = CO, O, S, NH and derivs., absent, etc.; R3 = H, (un)substituted alk(en/yn)yl, heteroaryl, OSO₂H, CHO, etc.; R₂, R₄ for each occurrence = independently (un)substituted alkyl, alkylcarbonyl, OH and derivs., NO, halo, CN, etc.; G = NH-C(NH)-NH, NH-CO-NH, NH-CS-NH, hetero/arylene, absent, etc.; n = 0-7], and pharmaceutically acceptable salts, solvates, clathrates, hydrates, prodrugs, and polymorphs thereof. The invention is also related to methods of modulating IL-12 production and

processes mediated by IL-12. E.g., a 4-step synthesis from 2,4,6-trichloropyrimidine and diethylamine was given for hydrazone II. I inhibited IL-12 production in human PBMC cells and THP-1 cell line in an in vitro assay. Thus, I are useful for treating or preventing disorders related with excessive bone loss, methods for inhibiting osteoclast formation, and methods for treating or preventing a disorder associated with excessive bone resorption.

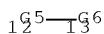
MSTR 1B



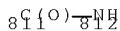
G1 = 7



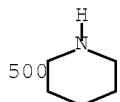
G3 = 12



G5 = 811-2 812-13



G6 = G25
G7 = G25 / 500



G25 = pyridyl

Patent location:

claim 1

Note:

substitution is restricted

Note:

additional substitution also claimed

Note:

or pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs

REFERENCE COUNT:

2

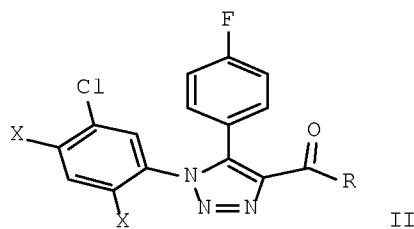
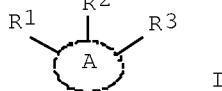
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 12 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 142:114071 MARPAT Full-text
 TITLE: Preparation of substituted 5-membered ring compounds
 as heat shock protein 90 (HSP90) inhibitors
 INVENTOR(S): Cheung, Kwai Ming; Dymock, Brian William; MacDonald, Edward; Drysdale, Martin James
 PATENT ASSIGNEE(S): Vernalis Cambridge Limited, UK; Cancer Research Technology Ltd.; The Institute of Cancer Research
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000300	A1	20050106	WO 2004-GB2755	20040624
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1638555	A1	20060329	EP 2004-743106	20040624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 2006235058	A1	20061019	US 2005-561969	20051222
PRIORITY APPLN. INFO.:			GB 2003-15111	20030627
			WO 2004-GB2755	20040624

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AB Title compds. I [wherein A = 5-membered cycle; R1 = (un)substituted (hetero)aryl; R2 (adjacent to R1) = absence, H, carboxamide, (un)substituted (hetero)aryl, carbocycle or heterocycle; R3 (adjacent to R2) = absence, H,

(un)substituted cycloalky(en)yl, alk(en/yn)yl, carboxyl, carboxamide or ester; with some limitations, or salts, N-oxides, hydrates or solvates thereof] were prepared as heat shock protein 90 (HSP90) inhibitors. Thus, 5-chloro-2,4-dimethoxyphenylamine was treated with NaNO₂ in the presence of H₂SO₄ followed by the addition of NaN₃. The resultant azide underwent cyclization with 3-(4-fluorophenyl)-3-oxopropionic acid Me ester gave intermediate II (X = OMe, R = OH). Demethylation of this compound with 48% HBr followed by esterification with EtOH yielded triazolecarboxylate II (X = OH, R = OEt), which showed IC₅₀ <10 μM for binding to HSP90 in a fluorescence polarization assay. Therefore, I and their compns. are useful for immunosuppression or the treatment of cancers, viral disease, inflammatory diseases and so on.

MSTR 1

g¹—g⁹—g¹⁵

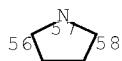
G1 = 4

g²—g²²

G2 = 6

g³—g³⁴

G3 = 56-2 57-5 58-7

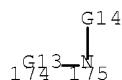


G8 = 0

G9 = 166-1 167-3

166¹¹—167¹²

G11 = phenylene (subst. by 1 or more G10)
G12 = 174-166 175-3



G13 = 180

180~~G~~^{G8}

G15 = pyridyl

Patent location:

claim 1

Note:

substitution is restricted

Note:

or salts, N-oxides, hydrates or solvates

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 13 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 140:77140 MARPAT Full-text

TITLE: Preparation of thiazolyl aryl ureas as activators of glucokinase

INVENTOR(S): Polisetti, Dharma Rao; Kodra, Janos Tibor; Lau, Jesper; Bloch, Paw; Valcarce-Lopez, Maria Carmen; Blume, Niels; Guzel, Mustafa; Santhosh, Kalpathy Chidambareswaran; Mjalli, Adnan M. M.; Andrews, Robert Carl; Subramanian, Govindan; Ankersen, Michael; Vedso, Per; Murray, Anthony; Jeppesen, Lone

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.; Valcarce-Lopez, mariacarmen; et al.

SOURCE: PCT Int. Appl., 600 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

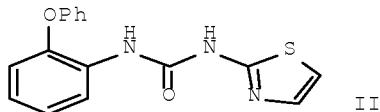
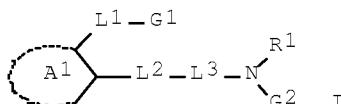
FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

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WO 2004002481	A1	20040108	WO 2003-DK449	20030627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2488642	A1	20040108	CA 2003-2488642	20030627
AU 2003243921	A1	20040119	AU 2003-243921	20030627
BR 2003012023	A	20050322	BR 2003-12023	20030627
EP 1531815	A1	20050525	EP 2003-761446	20030627
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1678311	A	20051005	CN 2003-820170	20030627
JP 2005537333	T	20051208	JP 2004-548878	20030627
CN 101130526	A	20080227	CN 2007-10153786	20030627
US 2004122235	A1	20040624	US 2003-679887	20031006
IN 2004CN02911	A	20060217	IN 2004-CN2911	20041221

MX 2005PA00130	A	20050217	MX 2005-PA130	20050103
NO 2005000426	A	20050329	NO 2005-426	20050126
ZA 2005000766	A	20060531	ZA 2005-766	20050126
US 2006183783	A1	20060817	US 2006-365534	20060301
PRIORITY APPLN. INFO.:			DK 2002-999	20020627
			US 2002-394144P	20020703
			DK 2003-286	20030225
			US 2003-452228P	20030305
			CN 2003-820170	20030627
			WO 2003-DK449	20030627

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AB The title compds. [I; A1 = arylene, heteroarylene, fused cycloalkylarylene, etc.; L1 = a bond, O, S, SO, etc.; G1 = alkyl, cycloalkyl, cycloalkylalkylene, etc.; L2 = a bond, alkylene, alkenylene, etc.; L3 = CO, COCO, COCH2CO, SO2; R1 = alkyl, alkenyl, alkynyl, etc.; G2 = heteroaryl, fused heterocyclheteroaryl, cycloalkylheteroaryl, etc.] which are activators of glucokinase and may be useful for the management, treatment, control, or adjunct treatment of diseases, where increasing glucokinase activity is beneficial (no data), were prepared and formulated. Thus, reacting 2-phenoxyaniline with 2-aminothiazole and 1,1'-carbonyldiimidazole afforded 95% the urea II.

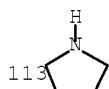
MSTR 1

G1—G10—G3—G4—G16

G1 = G29 / 166

1^{G28}—T^{G29}

G3 = C(O)
 G4 = NH
 G10 = phenylene (opt. subst. by 1 or more G12)
 G16 = pyridyl
 G29 = 113



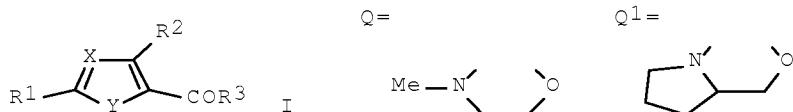
Patent location: claim 1
 Note: or pharmaceutically acceptable salts, solvates, or prodrugs

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 14 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 141:140463 MARPAT Full-text
 TITLE: Preparation of heterocyclic compounds as selective phosphodiesterase V inhibitors
 INVENTOR(S): Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji; Kikkawa, Kohei
 PATENT ASSIGNEE(S): Japan
 SOURCE: U.S. Pat. Appl. Publ., 116 pp., Cont.-in-part of U.S. Ser. No. 258,545.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

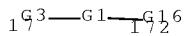
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004142930	A1	20040722	US 2003-699804	20031104
US 7273868	B2	20070925		
JP 2002012587	A	20020115	JP 2000-277652	20000913
JP 3637961	B2	20050413		
WO 2001083460	A1	20011108	WO 2001-JP2034	20010315
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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US 2003229089	A1	20031211	US 2002-258545	20021025
US 7220736	B2	20070522		
US 2008027037	A1	20080131	US 2007-889749	20070816
PRIORITY APPLN. INFO.:			JP 2000-130371	20000428
			JP 2000-277652	20000913
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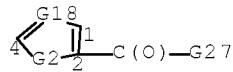


AB The title compds. (I) [X = CH, N; Y = NH, NR, S, O, CH:N, N:CH, N:N, CH:CHC(:R5)N, CH:C(R5), N:C(R7); R1 = each (un)substituted lower alkoxy, amino, heterocyclyl containing N atom(s), HO, or heterocycloloxy containing N atom(s), cyano; R2 = lower alkylamino or lower alkoxy each optionally substituted by an (un)substituted aryl, lower alkoxy group substituted by an aromatic heterocyclic ring containing N atom(s), lower alkylamino group substituted by a (un)substituted heterocyclic ring, (un)substituted arylamino; R3 = each (un)substituted aryl, heterocyclyl containing N atom(s), lower alkyl, lower alkoxy, lower cycloalkoxy, heterocycloloxy containing N atom(s), or NH₂; R4-R7 = each (un)substituted aryl, heterocyclyl containing N atom(s), lower alkoxy, or NH₂; R4, R5, R6 or R7 may combine with R3 to form a lactone ring Q or Q1; when X = N, Y = CH:N, or N:CH, R2 = an amino group monosubstituted by an (un)substituted arylmethyl, and R3 = (un)substituted lower alkyl, amino monosubstituted by an (un)substituted heterocyclyl-lower alkyl containing N atom(s) in the ring, heterocyclamino containing N atom(s) in the ring, or (un)substituted lower cycloalkylamino, R1 = each (un)substituted lower alkoxy, amino, heterocycloloxy containing N atom(s) in the ring, or cyano group] or pharmacol. acceptable salts thereof are prepared. These compds. have excellent selective PDE V inhibitory activity and therefore, are useful as therapeutic or prophylactic drugs for treating various diseases due to functional disorders on cGMP-signaling, such as erectile dysfunction, pulmonary hypertension, and diabetic gastroparesis. Thus, 2-(hydroxymethyl)pyridine was treated with NaH in THF and etherified with 2-chloro-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine to give 2-(2-pyridylmethoxy)-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine.

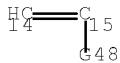
MSTR 1



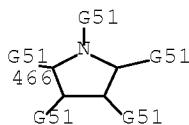
G1 = 4-17 1-172



G2 = 14-4 15-2



G3 = 466



G18 = CH
G27 = 329

³G₃₉-G₄₀

G39 = NH
G40 = pyridyl (opt. substd. by alkyl <containing 1-6 C>)
Patent location: claim 1
Note: additional ring formation also claimed
Note: substitution is restricted
Note: or pharmacologically acceptable salts

L24 ANSWER 15 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 137:369830 MARPAT Full-text
TITLE: Preparation of terphenyls and related polycyclic aromatic compounds as proteomimetics for inhibiting the interaction of an α -helical protein with another protein or binding site
INVENTOR(S): Hamilton, Andrew D.; Ernst, Justin; Orner, Brendan
PATENT ASSIGNEE(S): Yale University, USA
SOURCE: PCT Int. Appl., 142 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002089738	A2	20021114	WO 2002-US14494	20020508
WO 2002089738	A3	20030410		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2446380	A1	20021114	CA 2002-2446380	20020508
AU 2002305450	A1	20021118	AU 2002-305450	20020508
US 2003008882	A1	20030109	US 2002-142126	20020508
US 6858600	B2	20050222		
EP 1408986	A2	20040421	EP 2002-734269	20020508
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2005215563 A1 20050929 US 2005-43697 20050125

US 7312246 B2 20071225

PRIORITY APPLN. INFO.:

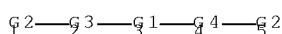
US 2001-289640P 20010508

US 2002-142126 20020508

WO 2002-US14494 20020508

AB WBXBY [X = (substituted) Ph, pyridyl, piperazinyl, diketopiperazinyl, oxopiperidinyl, pyrrolyl, thienyl, imidazolyl, furyl, oxazolyl, etc.; W, Y = (substituted) Ph, pyridinyl, pyrimidinyl, thiazolyl, furyl, etc.; B = bond, ester, amide linkage], were prepared Thus, 3-[4'-(cyanomethoxy)-2,3''-diisobutyl-3'-isopropyl-1,1':4',1''-terphenyl-4-yl]propanenitrile (preparation given) was stirred with aqueous NaOH in MeOH at 50° for 24 h to give 3-[4'-(carboxymethoxy)-2,3''-diisobutyl-3'-isopropyl-1,1':4',1''-terphenyl-4-yl]propanoic acid. The latter inhibited HIV-1 mediated cell-to-cell fusion with IC₅₀ = 15.70 µg/mL.

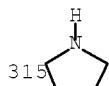
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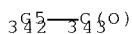
G1 = 8-2 11-4



G2 = 4-pyridyl / 315



G3 = 342-1 343-3



G4 = bond

G5 = NH

Patent location: claim 1

Note: or pharmaceutically acceptable salts

L24 ANSWER 16 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 137:288985 MARPAT Full-text

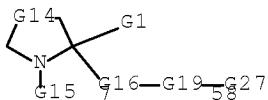
TITLE: Inhibitors of prenyl-protein transferase

INVENTOR(S): Desolms, S. Jane; Shaw, Anthony W.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002078702	A1	20021010	WO 2002-US9208	20020326
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002252502	A1	20021015	AU 2002-252502	20020326
PRIORITY APPLN. INFO.:			US 2001-280610P	20010330
			WO 2002-US9208	20020326

AB The present invention is directed to compds. which inhibit a prenyl-protein transferase (FTase) and the farnesylation of the oncogene protein Ras. The compds. of the present invention comprise non-prodrug, non-thiol compds. that contain a spirocyclic pyrrolidinyl moiety. The invention is further directed to chemotherapeutic compns. containing the compds. of this invention and methods for inhibiting a prenyl-protein transferase and the prenylation of the oncogene protein Ras.

MSTR 1



G1 = imidazolyl (opt. substd.)
 G14 = (1-3) CH₂
 G16 = phenylene (opt. substd. by (1-4) G17)
 G19 = 122-7 123-58

1S2O)rG22

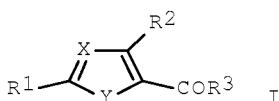
G22 = NH (opt. substd.)
 G27 = pyridyl (opt. substd.)
 Patent location: claim 1
 Note: or pharmaceutically acceptable salts

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 17 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 135:357948 MARPAT Full-text
 TITLE: Preparation of heterocyclic compounds as phosphodiesterase V (PDE V) inhibitors
 INVENTOR(S): Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji; Kikkawa, Kohei
 PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 207 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

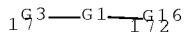
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083460	A1	20011108	WO 2001-JP2034	20010315
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001041142	A	20011112	AU 2001-41142	20010315
CA 2407231	A1	20021023	CA 2001-2407231	20010315
EP 1277741	A1	20030122	EP 2001-912373	20010315
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NZ 522217	A	20040430	NZ 2001-522217	20010315
CN 1657523	A	20050824	CN 2004-10098098	20010315
US 2003229089	A1	20031211	US 2002-258545	20021025
US 7220736	B2	20070522		
MX 2002PA10693	A	20030310	MX 2002-PA10693	20021028
US 2004142930	A1	20040722	US 2003-699804	20031104
US 7273868	B2	20070925		
AU 2005203687	A1	20050908	AU 2005-203687	20050817
US 2008027037	A1	20080131	US 2007-889749	20070816
PRIORITY APPLN. INFO.:				
		JP 2000-130371	20000428	
		JP 2000-277652	20000913	
		AU 2001-41142	20010315	
		WO 2001-JP2034	20010315	
		US 2002-258545	20021025	
		US 2003-699804	20031104	

GI

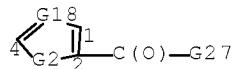


AB Compds. of the general formula (I) or pharmacol. acceptable salts thereof [wherein X is :CH or N; Y is NH, NR₄, S, O, CH:N, N:N, CH:CH, or the like; R₁ is lower alkoxy, amino, a nitrogenous heterocyclic group, or a hydroxyl group substituted with a heterocyclic group (wherein each group may be substituted); R₂ is either a lower alkylamino or lower alkoxy group which may be substituted with aryl, or a lower alkoxy group substituted with a nitrogenous aromatic heterocyclic group; and R₃ is aryl, a nitrogenous heterocyclic group, lower alkyl, lower alkoxy, lower cycloalkoxy, a hydroxyl group substituted with a nitrogenous heterocyclic group, or amino (wherein each group may be substituted), or alternatively, R₃ and the substituent of Y may be united to form a lactone ring] or pharmacol. acceptable salts thereof are prepared. These compds. exhibit excellent PDE V inhibitory activity and are useful as preventive or therapeutic agents for various diseases due to dysfunction of the signal transduction through cGMP, in particular impotence, pulmonary hypertension, and diabetic renal failure paralysis (no data). Thus, 2-(hydroxymethyl)pyridine was treated with NaH in THF at room temperature for 30 min and then condensed with 2-chloro-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine (preparation given) in THF at room temperature for 1 h to give 2-(2-pyridylmethoxy)-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4-methoxybenzylamino)pyrimidine.

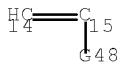
MSTR 1



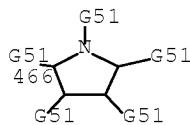
G1 = 4-17 1-172



G2 = 14-4 15-2



G3 = 466



G18 = CH
 G27 = 329

3289-640

G39 = NH
 G40 = pyridyl (opt. substd. by alkyl <containing 1-6 C>)
 Patent location: claim 1
 Note: additional ring formation also claimed
 Note: substitution is restricted
 Note: or pharmacologically acceptable salts

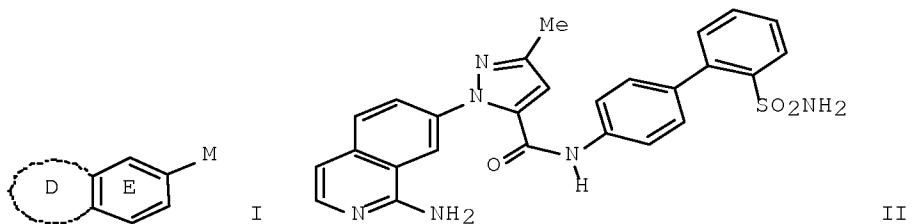
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 18 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 130:66494 MARPAT Full-text
 TITLE: Preparation of novel guanidine mimics as factor Xa inhibitors
 INVENTOR(S): Lam, Patrick Y.; Clark, Charles G.; Dominguez, Celia; Fevig, John Matthew; Han, Qi; Li, Renhua; Pinto, Donald Joseph-Phillip; Pruitt, James Russell; Quan, Mimi Lifen
 PATENT ASSIGNEE(S): The Du Pont Merck Pharmaceutical Company, USA
 SOURCE: PCT Int. Appl., 268 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9857951	A1	19981223	WO 1998-US12680	19980618
W: AU, BR, CA, CN, CZ, EE, HU, IL, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, UA, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9805247	A	19991217	ZA 1998-5247	19980617
CA 2291442	A1	19981223	CA 1998-2291442	19980618
AU 9879768	A	19990104	AU 1998-79768	19980618
AU 756755	B2	20030123		
EP 991638	A1	20000412	EP 1998-930361	19980618
EP 991638	B1	20050817		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
BR 9810137	A	20000808	BR 1998-10137	19980618
EE 9900583	A	20000815	EE 1999-583	19980618
EE 4153	B1	20031015		
HU 2000002686	A2	20020128	HU 2000-2686	19980618
HU 2000002686	A3	20020228		
JP 2002505686	T	20020219	JP 1999-504785	19980618
NZ 502370	A	20021025	NZ 1998-502370	19980618
AT 302198	T	20050915	AT 1998-930361	19980618
ES 2244064	T3	20051201	ES 1998-930361	19980618
RO 120543	B1	20060330	RO 1999-1317	19980618

PL 192941	B1	20061229	PL 1998-337756	19980618
SK 285685	B6	20070607	SK 1999-1728	19980618
TW 544453	B	20030801	TW 1998-87109910	19980819
NO 9905965	A	19991203	NO 1999-5965	19991203
NO 318359	B1	20050307		
MX 9911908	A	20000531	MX 1999-11908	19991216
LV 12496	B	20010120	LV 1999-178	19991216
LT 4705	B	20000925	LT 1999-147	19991217
PRIORITY APPLN. INFO.:			US 1997-878884	19970619
			WO 1998-US12680	19980618

GI

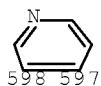


AB The title compds. [I; rings D-E represent guanidine mimics; ring D = CH₂N:CH, CH₂CH₂N:CH, a 5-6 membered aromatic system containing 0-2 heteroatoms selected from the group N, O, and S; ring D is substituted with 0-2 R (substituents), provided that when ring D is unsubstituted, it contains at least one heteroatom; ring E contains 0-2 N atom and is substituted by 0-1 R; R = halo, OH, C₁-3 alkoxy, etc.; M = (un)substituted pyrazole, imidazole, tetrazole, etc.], inhibitors of factor Xa which are useful in treating and preventing a thromboembolic disorder, were prepared and formulated. Thus, a multi-step synthesis of the title compound II, starting with 7-aminoisoquinoline, was described. A number of compds. I were found to exhibit a Ki of \leq 15 μ M against factor Xa.

MSTR 1

G 4—G 1—G 2 2G 2 9—G 3 1

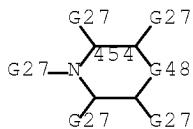
G1 = 598-1 597-3



G4 = naphthyl (opt. subst. by 1 or more G5)
G22 = 172-2 174-98

1 G26-C(O)G28

G26 = NH (opt. substd.)
 G28 = (0-3) CH₂
 G29 = phenylene (opt. substd.)
 G31 = 454



G48 = bond
 Derivative:
 Patent location:
 Note:
 Note:
 Note:
 Stereochemistry:

or pharmaceutically acceptable salts
 claim 1
 additional ring formation also claimed
 substitution is restricted
 additional substitution also claimed
 or stereoisomers

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 19 OF 19 MARPAT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 130:81510 MARPAT Full-text
 TITLE: Preparation of phenylpyrazolecarboxamides as coagulation factor Xa inhibitors
 INVENTOR(S): Galemmo, Robert Anthony, Jr.; Dominguez, Celia; Fevig, John Matthew; Han, Qi; Lam, Patrick Yuk-sun; Pinto, Donald Joseph Philip; Pruitt, James Russell; Quan, Mimi Lifen
 PATENT ASSIGNEE(S): The Du Pont Merck Pharmaceutical Company, USA
 SOURCE: PCT Int. Appl., 259 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9857937	A2	19981223	WO 1998-US12681	19980618
WO 9857937	A3	19990318		
W: AU, BR, CA, CN, CZ, EE, HU, IL, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, UA, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9805251	A	19991217	ZA 1998-5251	19980617
CA 2290982	A1	19981223	CA 1998-2290982	19980618
AU 9881503	A	19990104	AU 1998-81503	19980618
US 5998424	A	19991207	US 1998-99752	19980618
EP 991625	A2	200004412	EP 1998-931355	19980618
EP 991625	B1	20050601		

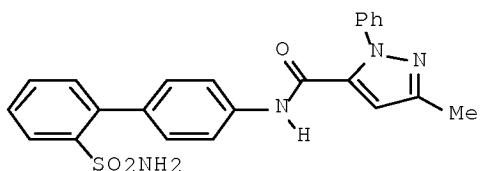
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SI, LT, LV, FI, RO

BR 9810151	A	20000808	BR 1998-10151	19980618
EE 9900584	A	20000815	EE 1999-584	19980618
SI 20208	A	20001031	SI 1998-20043	19980618
HU 2000003906	A2	20010528	HU 2000-3906	19980618
JP 2002507968	T	20020312	JP 1999-504786	19980618
AT 296805	T	20050615	AT 1998-931355	19980618
ES 2239806	T3	20051001	ES 1998-931355	19980618
PT 991625	T	20051031	PT 1998-931355	19980618
US 6403620	B1	20020611	US 1999-393782	19990910
MX 9910588	A	20010910	MX 1999-10588	19991117
LV 12516	B	20010320	LV 1999-177	19991216
NO 9906316	A	19991217	NO 1999-6316	19991217
LT 4702	B	20000925	LT 1999-146	19991217
US 2003092740	A1	20030515	US 2002-150698	20020516
US 6602895	B2	20030805		

PRIORITY APPLN. INFO.:

US 1997-50219P	19970619
US 1997-878885	19970619
US 1998-76691P	19980227
US 1998-99752	19980618
WO 1998-US12681	19980618
US 1999-393782	19990910

GI



AB EZ1M [I; E = halo, OH, alkyl, alkoxy, etc.; M = Z2ZAB; A = (un)substituted carbocyclene, -heterocyclene; B = H, Y, XY; X = alkylene, CO, O, (un)substituted NH, etc.; Y = amino(alkyl), substituted carbocyclyl, -heterocyclyl, etc.; Z = bond, (heteroatom- or functional group-interrupted) alkylene, etc.; Z1 = (un)substituted Ph, Z2 = N-containing heteroarylene, etc.] were prepared. Thus, MeCOCH₂C(:NOMe)CO₂Et was cyclocondensed with PhHNH₂ and the product amidated by 4-(H₂N)C₆H₄C₆H₄(SO₂NHCOMe)₂ to give, after deprotection, title compound II. Data for biol. activity of I were given.

MSTR 1

G4—G1—G22—G29—G31

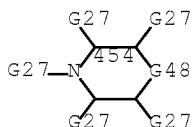
G1 = 598-1 597-3



G4 = Ph (substd. by 1 or more G5)
 G22 = 172-2 174-98

$^{1G26-C(O)G28}$

G26 = NH (opt. substd.)
 G28 = (0-3) CH₂
 G29 = phenylene (opt. substd.)
 G31 = 454



G48 = bond
 Derivative: or pharmaceutically acceptable salts
 Patent location: claim 1
 Note: additional ring formation also claimed
 Note: substitution is restricted
 Note: additional substitution also claimed
 Stereochemistry: or stereoisomers

=> fil cap dissabs confsci wpix
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FILE 'WPIX' ENTERED AT 10:14:16 ON 26 MAR 2008
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=> d que 123
 L17 945 SEA ("KOIKE A"/AU OR "KOIKE A A G C L"/AU OR "KOIKE A D C"/AU
 OR "KOIKE A M M"/AU OR "KOIKE A S C E I"/AU OR "KOIKE A U"/AU
 OR "KOIKE AKIO"/AU)
 L18 151 SEA ("IWAHASHI Y"/AU OR "IWAHASHI Y A G C L"/AU OR "IWAHASHI
 YASUTOMI"/AU)

L19 398 SEA ("TAKIMOTO Y"/AU OR "TAKIMOTO Y S C"/AU OR "TAKIMOTO YASUYIKI"/AU OR "TAKIMOTO YASUYUKI"/AU OR "TAKIMOTO YASUYUKU"/AU)
L20 134 SEA ("KIKUGAWA S"/AU OR "KIKUGAWA S A G C L"/AU OR "KIKUGAWA S M M"/AU OR "KIKUGAWA SHINNYA"/AU OR "KIKUGAWA SHINYA"/AU)
L21 1603 SEA (L17 OR L18 OR L19 OR L20)
L22 201 SEA L21 AND (SI OR SILIC?)
L23 39 SEA L22 AND (TI OR TITAN? OR TiO2)

=> dup rem l23

PROCESSING COMPLETED FOR L23

L25 24 DUP REM L23 (15 DUPLICATES REMOVED)
ANSWERS '1-19' FROM FILE CAPLUS
ANSWERS '20-24' FROM FILE WPIX

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L25 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2007:327846 CAPLUS Full-text
DOCUMENT NUMBER: 146:363765
TITLE: Tin- and titanium-doped silicate glass with low thermal expansion and low concave defects for EUV photolithography
INVENTOR(S): Kawata, Mitsuhiro; Takada, Akira; Hayashi, Hideaki; Sugimoto, Naoki; Kikugawa, Shinya
PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan
SOURCE: PCT Int. Appl., 23pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007032533	A1	20070322	WO 2006-JP318543	20060913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2007238425	A	20070920	JP 2006-246763	20060912
PRIORITY APPLN. INFO.:			JP 2005-269578	A 20050916
			JP 2005-375010	A 20051227
			JP 2006-31021	A 20060208

AB A silicate glass suitable as optical material for extreme-UV lithog. has a low coefficient of thermal expansion over 0-100° (0±250 ppb/°C), and is produced without formation of concave defects during polishing to achieve a high level of flatness. The silica glass contains 0.1-10% of SnO₂ and 3-10% of TiO₂, and has a homogeneity of the coefficient of thermal expansion at 0-100° of 50-200 ppb/°C, and a Vickers hardness ≤650.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2
 ACCESSION NUMBER: 2007:638871 CAPLUS Full-text
 DOCUMENT NUMBER: 147:77519
 TITLE: Sealing compositions for colored cathode ray tubes
 INVENTOR(S): Tanabe, Ryuichi; Watanabe, Kazunari; Takimoto,
 Yasuyuki; Segawa, Masaru; Horie, Noritoshi
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007145662	A	20070614	JP 2005-343774	20051129
PRIORITY APPLN. INFO.:			JP 2005-343774	20051129

AB The compns. contain 80-96 mass% low-m.p. crystallizable glass powder and 4-20 mass% low-expansion ceramic filler, where the glass powder (free from F) contains: PbO 75-80, ZnO 9-13, B2O3 7-10, SiO2 1.65-2.4, BaO 1.5-2.3, SrO 0-1.5, CaO 0-1.5, PbO + ZnO 86-91 mass%, and ZnO/PbO ratio 0.11-0.17, and the ceramic filler contains: zircon powder 1-5, and Pb titanate powder 3-15 mass%. The obtained cathode ray tubes have high compressive strength.

L25 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 3
 ACCESSION NUMBER: 2007:584358 CAPLUS Full-text
 DOCUMENT NUMBER: 146:526331
 TITLE: Method for molding of optical silica glasses containing TiO2 by using coated graphite molds
 INVENTOR(S): Kawada, Mitsuhiro; Koike, Akio; Iwahashi, Yasuomi;
 Sugimoto, Naoki; Kikugawa, Shinya
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007131472	A	20070531	JP 2005-324913	20051109
PRIORITY APPLN. INFO.:			JP 2005-324913	20051109

AB The title method comprises following steps: coating a suspension solution containing average particle diameter 0.01-5 μm SiC on graphite molds to give coating amount 0.005-0.2 g/cm², further coating a suspension solution containing 10-50 weight% average particle diameter 0.01-10 μm ZrO₂ and 50-90 weight% average particle diameter 5-150 μm SiC to give coating amount 0.005-0.2 g/cm², press molding the TiO₂-containing silica glasses at 1500-1800°. The method provides high production efficiency by preventing foaming of the glasses.

L25 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 4
 ACCESSION NUMBER: 2007:251678 CAPLUS Full-text

DOCUMENT NUMBER: 146:279075
 TITLE: Molding of silica glass containing TiO₂
 INVENTOR(S): Kawada, Mitsuhiro; Koike, Akio; Iwahashi, Yasuomi;
 Sugimoto, Naoki; Kikugawa, Shinya
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007055842	A	20070308	JP 2005-242846	20050824
PRIORITY APPLN. INFO.:			JP 2005-242846	20050824

AB The method involves applying a suspension containing SiC particles having average diameter 0.01-150 µm on a molding surface side of a graphite mold to satisfy coating weight per unit area 0.005-0.2 g/cm², setting TiO₂-containing glass in the mold, and press-molding the glass at 1500-1800° to give a molded glass with desired shape. Bubble generation during molding is prevented, so that the molded glass is suitable for optical parts used in EUV lithog.

L25 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 5
 ACCESSION NUMBER: 2006:768458 CAPLUS Full-text
 DOCUMENT NUMBER: 145:193629
 TITLE: Production of titanium silicate optical glass with low hydrogen content for extreme UV lithography
 INVENTOR(S): Koike, Akio; Iwahashi, Yasutomi; Shimodaira, Noriaki; Kikugawa, Shinya; Sugimoto, Naoki
 PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan
 SOURCE: PCT Int. Appl., 34pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006080241	A2	20060803	WO 2006-JP300777	20060113
WO 2006080241	A3	20060921		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006210404	A	20060810	JP 2005-16880	20050125
EP 1841702	A2	20071010	EP 2006-700922	20060113
R: BE, DE, FR, GB, IT, NL				
US 2007207911	A1	20070906	US 2007-747698	20070511
PRIORITY APPLN. INFO.:			JP 2005-16880	A 20050125

AB Conventional TiO₂-SiO₂ glass contains hydrogen atoms which, during deposition under ultrahigh vacuum conditions, will diffuse in the chamber and H₂ mols. will be taken into the film formed. Hydrogen mols. will readily diffuse and thus change the optical characteristics of the multilayer film. In an optical material for EUV lithog., a multilayer film is deposited by ion beam sputtering on a silica glass having a TiO₂ concentration of 3-12 mol.% and a hydrogen mol. content <5x10¹⁷ mols./cm³ in the glass.

L25 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2006:31365 CAPLUS Full-text

DOCUMENT NUMBER: 144:112518

TITLE: Production of TiO₂-doped silica glass with zero thermal expansion coefficient over wide temperature range

INVENTOR(S): Koike, Akio; Iwabashi, Yasutomi; Takimoto, Yasuyuki; Kikugawa, Shinya

PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan

SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006004169	A1	20060112	WO 2005-JP12519	20050630
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1761469	A1	20070314	EP 2005-757800	20050630
R: DE, FR, GB, IT, NL				
JP 2008505043	T	20080221	JP 2006-548436	20050630
KR 2007028354	A	20070312	KR 2006-721793	20061020
US 2007042893	A1	20070222	US 2006-589875	20061031
PRIORITY APPLN. INFO.:			JP 2004-195682	A 20040701
			WO 2005-JP12519	W 20050630

AB A TiO₂-containing silica glass with zero coefficient of thermal expansion over a wide temperature range comprises 3-10 weight% of TiO₂, a OH group concentration of at most 600 ppm by weight and a Ti³⁺ concentration <70 ppm by weight. The glasses have a fictive temperature of 1200° or less, a coefficient of thermal expansion of 0±150 ppb/°C over 0-100° range, and an internal transmittance T400-700 per 1 mm thickness at 400-700 nm of at least 80%. The TiO₂-doped silicate glasses are produced by forming a porous glass body, fluorine-doping before oxygen treatment, densification and vitrification.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 7

ACCESSION NUMBER: 2006:359174 CAPLUS Full-text
 DOCUMENT NUMBER: 144:374820
 TITLE: Production of high transparent titanium silicate glass with zero thermal expansion coefficient in wide temperature region
 INVENTOR(S): Iwahashi, Yasuomi; Koike, Akio
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006103988	A	20060420	JP 2004-289783	20041001
PRIORITY APPLN. INFO.:			JP 2004-289783	20041001

AB In the production process, flame hydrolytically deposited porous TiO₂-SiO₂ glass soot preforms are heated in nonreducing atmospheric to 1100-1650° to give sinters with d. of 2.0-2.3 g/cm³, then further heated to 1400-1700° in atmospheric of ≥0.01 Mpa for vitrification into high-transparent glass. Preferably, the resultant glass is heated to a temperature of equal to or above softening point and formed into desired shape. In the production, fluorine doping may be carried out so as to widen the temperature range of zero thermal expansion coefficient. The production process inhibits generation of Ti³⁺ during sintering, so that the glass shows high transparency and is suitable for EUV (extreme-UV) lithog. exposure apparatus

L25 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2005:635024 CAPLUS Full-text
 DOCUMENT NUMBER: 143:137539
 TITLE: Silica glass as periphery materials for optical analysis instrument and IR heating devices
 INVENTOR(S): Koike, Akio; Iwahashi, Yasuomi
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005194118	A	20050721	JP 2004-389	20040105
WO 2005066090	A1	20050721	WO 2004-JP19834	20041228
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2006276323	A1	20061207	US 2006-435887	20060518

US 7294595 B2 20071113 JP 2004-389 A 20040105
 PRIORITY APPLN. INFO.: WO 2004-JP19834 A1 20041228

AB The glass contains 3-10 mass% of TiO₂, and has thermal expansion coefficient at 0-100° CTE0-100 0±300 ppb/°, and inner transmittance at 200-700 nm wavelength range and thickness of 1 mm T200-700 ≤80%. Preferably, the glass also contains a reducing substance with respect to TiO₂.

L25 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 9

ACCESSION NUMBER: 2004:878346 CAPLUS Full-text
 DOCUMENT NUMBER: 141:353842
 TITLE: Silica glass containing TiO₂ with minimal thermal expansion used for extreme UV lithography
 INVENTOR(S): Iwahashi, Yasutomi; Koike, Akio
 PATENT ASSIGNEE(S): Asahi Glass Company Limited, Japan
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004089839	A1	20041021	WO 2004-JP4833	20040402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005022954	A	20050127	JP 2004-65275	20040309
EP 1608598	A1	20051228	EP 2004-725504	20040402
EP 1608598	B1	20070718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2005245382	A1	20051103	US 2005-172872	20050705
PRIORITY APPLN. INFO.:			JP 2003-100495	A 20030403
			JP 2003-164669	A 20030610
			JP 2004-65275	A 20040309
			WO 2004-JP4833	W 20040402

AB A silica glass containing TiO₂ has a fictive temperature of at most 1200°, an OH group concentration of at most 600 ppm, and a coefficient of thermal expansion of 0±200 ppb/°C at the temperature range from 0 to 100°.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 10

ACCESSION NUMBER: 2004:878345 CAPLUS Full-text
 DOCUMENT NUMBER: 141:353841
 TITLE: Silica glass containing TiO₂ and optical material for Extreme UV lithography
 INVENTOR(S): Iwahashi, Yasutomi; Koike, Akio

PATENT ASSIGNEE(S): Asahi Glass Company Limited, Japan
 SOURCE: PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004089838	A1	20041021	WO 2004-JP4829	20040402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004315351	A	20041111	JP 2004-76312	20040317
EP 1608599	A1	20051228	EP 2004-725542	20040402
EP 1608599	B1	20071017		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2005245383	A1	20051103	US 2005-174533	20050706
PRIORITY APPLN. INFO.:			JP 2003-100798	A 20030403
			JP 2003-100799	A 20030403
			JP 2004-76312	A 20040317
			WO 2004-JP4829	W 20040402

AB A silica glass containing TiO₂, characterized in that the fluctuation of the refractive index (Δn) is at most $2 \cdot 10^{-4}$ within the area of 30 mm to 30 mm in at least one plane. A TiO₂-containing silica glass is characterized in the TiO₂ concentration at least 1 weight%, and the striae pitch is at most 10 μm . An optical material for EUV lithog. is made of a silica glass containing TiO₂, and the fluctuation of the refractive index (Δn) is at most $2 \cdot 10^{-4}$ in a plane perpendicular to the incident light direction. The resulting optical material for EUV lithog. has the difference between the maximum value and the min. value of the TiO₂ concentration at most 0.06 weight% in a plane perpendicular to the incident light direction.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 11
 ACCESSION NUMBER: 2004:872761 CAPLUS Full-text
 DOCUMENT NUMBER: 141:336158
 TITLE: Manufacture of fluorine-doped titanium silicate
glass for extreme UV photolithography via flame
hydrolysis and annealing
 INVENTOR(S): Iwahashi, Yasutomi; Koike, Akio
 PATENT ASSIGNEE(S): Asahi Glass Company Limited, Japan
 SOURCE: PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004089836	A1	20041021	WO 2004-JP4845	20040402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005104820	A	20050421	JP 2004-72762	20040315
EP 1608596	A1	20051228	EP 2004-725500	20040402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2005272590	A1	20051208	US 2005-172950	20050705
PRIORITY APPLN. INFO.:			JP 2003-100496	A 20030403
			JP 2003-321729	A 20030912
			JP 2004-72762	A 20040315
			WO 2004-JP4845	W 20040402

AB A titanium silicate glass is produced with a fictive temperature of at most 1200°, a F concentration of at least 100 ppm and a coefficient of thermal expansion of 0±200 ppb/°C at 0-100°. The silicate glass is manufactured by forming a porous glass body on a target quartz glass particles obtained by flame hydrolysis of glass-forming materials (such as TiCl₄ and SiCl₄), then obtaining a fluorine-containing porous glass body later transformed into a vitrified non-porous body that is formed prior to carrying out an annealing treatment.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 12
 ACCESSION NUMBER: 2002:672062 CAPLUS Full-text
 DOCUMENT NUMBER: 137:205081
 TITLE: Alkali alkaline earth titanosilicate glass for substrate of recording media and optical instruments
 INVENTOR(S): Koike, Akio; Nakajima, Tetsuya; Nakao, Yasumasa; Kobayashi, Tomoyuki; Maeda, Takashi
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002249336	A	20020906	JP 2001-69099	20010312
PRIORITY APPLN. INFO.:			JP 2000-98798	A 20000331
			JP 2000-390818	A 20001222
AB The title glass contains SiO ₂ 1-45, TiO ₂ 20-50, B ₂ O ₃ 0-30, Al ₂ O ₃ 0-20, MgO 0-20, CaO 0-30, SrO 0-20, BaO 0-30, ZnO 0-20, ZrO ₂ 0-20, Li ₂ O 0-15, Na ₂ O 0-30, and K ₂ O 0-30 mol.%. The glass has high Young's modulus and expansion coefficient and is especially suitable for substrates of recording media or optical circuits and optical lenses.				

L25 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 13
 ACCESSION NUMBER: 2001:703326 CAPLUS Full-text
 DOCUMENT NUMBER: 135:246067
 TITLE: Glass for substrate, and its use in recording medium
 and optical circuit part
 INVENTOR(S): Koike, Akio; Nakajima, Tetsuya
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261365	A	20010926	JP 2000-84060	20000324
PRIORITY APPLN. INFO.:			JP 2000-84060	20000324
AB	The glass contains Al ₂ O ₃ 10-50, CaO 20-70, SiO ₂ 0-25, MgO 0-25, SrO 0-25, BaO 0-25, ZnO 0-25, TiO ₂ 0-25, ZrO ₂ 0-15, Li ₂ O 0-15, Na ₂ O 0-15, K ₂ O 0-15, Y ₂ O ₃ 0-25, and La ₂ O ₃ 0-25 mol%. The glass may have Young's modulus ≥ 90GPa and average linear expansion coefficient at 50-350° ≥ 70 × 10 ⁻⁷ /°C. The glass with high Young's modulus and expansion coefficient, is suitable for magnetic disks, optical disks, optical band-pass filters, etc.			

L25 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 14
 ACCESSION NUMBER: 2001:356593 CAPLUS Full-text
 DOCUMENT NUMBER: 134:347490
 TITLE: Glass for information recording substrate and glass
 substrate for information recording medium
 INVENTOR(S): Koike, Akio; Nakajima, Tetsuya; Nakao, Yasumasa
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001134925	A	20010518	JP 1999-343618	19991202
PRIORITY APPLN. INFO.:			JP 1999-238778	A 19990825
AB	A glass having a high Young's modulus and resistant to devitrification comprises 30 ≤ SiO ₂ ≤ 60 and 1 ≤ Al ₂ O ₃ < 20 and 1 ≤ MgO < 20, CaO ≤ 25, SrO ≤ 15, ZnO ≤ 20, TiO ₂ ≤ 10, ZrO ₂ ≤ 10, Li ₂ O ≤ 15, Na ₂ O ≤ 2, Y ₂ O ₃ ≤ 25, La ₂ O ₃ ≤ 25 in mol% while Al ₂ O ₃ + MgO < 28 and Al ₂ O ₃ + MgO + CaO < 40 in mol%. A glass substrate for an information recording medium such as a magnetic disk or optical disk comprises the above glass.			

L25 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 15
 ACCESSION NUMBER: 2000:907180 CAPLUS Full-text
 DOCUMENT NUMBER: 134:65364
 TITLE: Glass for magnetic recording medium and glass
 substrate for the medium

INVENTOR(S): Nakajima, Tetsuya; Nakao, Yasumasa; Koike, Akio
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 2000357318	A	20001226	JP 2000-80690	20000322
US 6387510	B1	20020514	US 2000-546609	20000410

PRIORITY APPLN. INFO.: JP 1999-105653 A 19990413

AB The glass having Young's modulus ≥ 85 GPa consists of SiO₂ 60-72, Al₂O₃ 2-9, MgO 3-9, CaO 2-10, SrO 0-15, ZnO 0-4, TiO₂ 0-8, ZrO₂ 0-4, Li₂O 1-12, Na₂O 0-8, K₂O 0-5, Y₂O₃ 0-5, and La₂O₃ 0-5 mol% and the amount of Li₂O, Na₂O, and K₂O is 4-15 mol%. The substrate for the magnetic recording medium is made of the glass and number of fixed substances with size $\geq 10 \mu\text{m}$ is $\leq 1/\text{cm}^2$ and the substances with size from $\geq 1 \mu\text{m}$ to $< 10 \mu\text{m}$ is $\leq 105/\text{cm}^2$ both on the surface after 20 h in steam at 120° and 2 atmospheric. The substrate with high Young's modulus and weather resistance is suitable for mass production of magnetic disks.

L25 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:338368 CAPLUS Full-text

DOCUMENT NUMBER: 145:237292

TITLE: Novel low thermal expansion material for EUV application

AUTHOR(S): Kawata, Mitsuhiro; Takada, Akira; Hayashi, Hideaki; Sugimoto, Naoki; Kikugawa, Shinuya

CORPORATE SOURCE: Research Center, Asahi Glass Co., Ltd., 1150 Hazawa-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-8755, Japan

SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (2006), 6151(Pt. 1, Emerging Lithographic Technologies X), 61511A/1-61511A/7
 CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In extreme UV (EUV) lithog. technol., ultra low thermal expansion material is required as photomask substrate. We have previously developed Ti-doped silica glass which exhibits both ultra low coefficient of thermal expansion (CTE) and high homogeneity for EUV substrate. On the other hand, we have been investigating other candidate materials which have low CTE, from the viewpoint of structural chemical. Silica glass is well-known as a low thermal expansion material and the reason is explained that in the open structure of silica glass two factors, expansion and shrinkage, compete with each other with increase in temperature. The network of silica glass consists of tetrahedra like quartz crystal. In this structure, Si is stably present with a valence of 4 and a coordination number of 4. We have carried out an atomistic simulation and estimated the volume change of oxide materials which may have the same structural transformation mechanism as SiO₂. As a result, the volume of SnO₂ with quartz structure (quartz-SnO₂), in which Sn was present with a valence of 4 and a coordination number of 4, decreased with increase in temperature, i.e., the d. of quartz-SnO₂ increased. Thus, it was indicated that the glass with lower CTE than that of silica glass could be obtained with

substituting Sn for Si. Based on this hypothesis, we have prepared Sn-doped silica glass by Asahi silica glass producing method. The synthesized Sn-doped silica glass exhibited lower CTE than that of an ordinary silica glass.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:300276 CAPLUS Full-text
 DOCUMENT NUMBER: 145:219913
 TITLE: Temperature dependences of optical path length in fluorine-doped silica glass and bismuthate glass
 AUTHOR(S): Koike, Akio; Sugimoto, Naoki
 CORPORATE SOURCE: Research Center, Asahi Glass Co., Ltd., 1150, Hazawa-cho, Kanagawa-ku, Yokohama-City, Kanagawa, Japan
 SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (2006), 6116(Optical Components and Materials III), 61160Y/1-61160Y/8
 CODEN: PSISDG; ISSN: 0277-786X
 PUBLISHER: SPIE-The International Society for Optical Engineering
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Temperature dependences of optical path length (dS/dT ; calculated using the equation, $dS/dT = dn/dT + na$, where a is coefficient of thermal expansion, n is refractive index and dn/dT is temperature coefficient of refractive index) in various oxide glasses were investigated. The dS/dT is generally difficult to adjust by change of glass composition because dn/dT and a are interrelated. However, low dS/dT materials are desired for optical applications such as athermal devices, and high dS/dT materials can be used for thermo-optic devices. Pure silica glass is well-known as a typical low dS/dT material but still not sufficient. Fluorine-doped silica glass showed a lower dS/dT than that of pure silica glass. By fluorine-doping in silica glass, refractive index and dn/dT decreased but a near room temperature stayed at the same level. As a result, the dS/dT decreased with increasing fluorine concentration. On the other hand, bismuthate glass showed the highest dS/dT in this study. Most glasses having high a such as tellurite glass showed neg. dn/dT . However, bismuthate glasses showed pos. dn/dT in spite of high a . As a result, bismuthate glasses showed quite high dS/dT . These results indicate that dS/dT of the glass can be controllable and that fluorine doped silica glass and bismuthate glass are appropriate candidate materials for optical applications.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:374084 CAPLUS Full-text
 DOCUMENT NUMBER: 146:406172
 TITLE: Temperature dependences of optical path length in inorganic glasses
 AUTHOR(S): Koike, Akio; Sugimoto, Naoki
 CORPORATE SOURCE: Res. Cent., Asahi Glass Co., Ltd., Japan
 SOURCE: Asahi Garasu Kenkyu Hokoku (2006), 56, 1-6
 CODEN: AGKHAD; ISSN: 0004-4210
 PUBLISHER: Asahi Garasu K.K. Chuo Kenkyusho
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Temperature dependences of optical path length (dS/dT ; calculated using the equation, $dS/dT=dn/dT+na$, where a is the coefficient of thermal expansion, n is the refractive index and dn/dT is the temperature coefficient of refractive index) in various oxide glasses were investigated. The dS/dT is generally

difficult to be controlled by change of glass composition because dn/dT and α are interrelated. This experiment also showed that the values of dS/dT for most glasses ranged between 10 ppm/ $^{\circ}$ and 20 ppm/ $^{\circ}$ except for bismuthate glasses. Pure silica glass is well-known as a typical material with low dS/dT . However, fluorine-doped silica glass showed a lower dS/dT than that of pure silica glass. By fluorine-doping in silica glass, refractive index and dn/dT decreased but α stayed at the same level near room temperature. As a result, the dS/dT decreased with increasing fluorine concentration. On the other hand, a bismuthate glass showed the highest dS/dT in this study. Although most glasses having high α such as tellurite glass showed neg. dn/dT , bismuthate glasses showed pos. dn/dT in spite of high α . It was assumed that bismuthate glass showed high dn/dT due to high polarizability of Bi₂O₃ which is similar to PbO. These results indicate that dS/dT of glass can be designed by considering the electronic configuration of its components and the glass structure.

L25 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1973:432751 CAPLUS Full-text

DOCUMENT NUMBER: 79:32751

ORIGINAL REFERENCE NO.: 79:5319a, 5322a

TITLE: Photosensitive coating compositions containing pigments

INVENTOR(S): Takimoto, Yasuyuki; Umeda, Yasushi

PATENT ASSIGNEE(S): Nippon Paint Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48028037	A	19730413	JP 1971-61797	19710814
JP 50028094	B	19750912		

PRIORITY APPLN. INFO.: JP 1971-61797 A 19710814

AB Pigmented, photosensitive poly(vinyl alc.) (I) [9002-89-5] coating compns. could be cured in the presence of ammonium dichromate [7789-09-5] and basic lead silicochromate [11097-70-4] to give coatings with better resistance to solvent, water, and weather than com. acrylic latex paints. For example, a photosensitive resin solution was prepared from I (degree of saponification 88 mole%) 120, water 680, acrylonitrile [107-13-1] 86, Et acrylate [140-88-5] 70, and diacetyl 0.3 part. A paste (553 parts) from clay 200, CaCO₃ 60, 25% aqueous anionic surfactant 10, HOCH₂CH₂OH 20, o-C₆H₄(CO₂Bu)₂ 20, octyl alc. 0.5, 2% aqueous Methocel 50, and water 100 parts was mixed with 200 parts TiO₂ to give a pigment composition which was mixed with the resin solution 274, 30% aqueous ammonium dichromate 76, and basic Pb silicochromate 50 parts to give a coating composition. The composition was used alone or together with com. acrylic latex paints.

L25 ANSWER 20 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

ACCESSION NUMBER: 2007-380717 [36] WPIX

DOC. NO. CPI: C2007-137669 [36]

DOC. NO. NON-CPI: N2007-284544 [36]

TITLE: Processing of porous glass used in manufacture of optical material, involves controlling pressure of space between chamber and furnace core pipe higher than pressure in

DERWENT CLASS: furnace core pipe, while supplying inert gas to space
L01; S02; U11; X25
INVENTOR: INOGUCHI H; IWANASHI Y; MATSUMOTO I; NAGANO T; OGAWA T
PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD
COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
JP 2007051020	A 20070301 (200736)*	JA 11[1]			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 2007051020 A		JP 2005-236549	20050817

PRIORITY APPLN. INFO: JP 2005-236549 20050817

AN 2007-380717 [36] WPIX

AB JP 2007051020 A UPAB: 20070608

NOVELTY - A process gas is supplied to a furnace core pipe (12) in which porous glass is accommodated. The furnace core pipe is installed in a chamber (14) provided with a heater (28), and sealed by a seal portion (16) having heat resistance and air permeability. While supplying an inert gas to the space (34) between chamber and furnace core pipe, the pressure of the space is controlled higher than the pressure in the furnace core pipe.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for processing apparatus (10) of porous glass.

USE - For processing porous glass used in manufacture of optical material used for optical lithography using extreme UV light as exposure light source.

ADVANTAGE - The method enables efficient processing of porous glass without requiring a large-sized heating furnace.

DESCRIPTION OF DRAWINGS - The figure shows the partial cross-section of the processing apparatus. (Drawing includes non-English language text)

Processing apparatus (10)

Furnace core pipe (12)

Chamber (14)

Seal portion (16)

Space (34)

L25 ANSWER 21 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN
ACCESSION NUMBER: 2007-214653 [22] WPIX
DOC. NO. CPI: C2007-078821 [22]
DOC. NO. NON-CPI: N2007-159524 [22]
TITLE: Manufacture of porous titania-silica vitreous material for optical component, involves rotating glass particles-deposited master rod suspended by rotation mechanism, and growing porous vitreous material at preset conditions
DERWENT CLASS: L01; U11
INVENTOR: IWANASHI Y; NAGANO T; SOMEYA K
PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD
COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
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JP 2007045638 A 20070222 (200722)* JA 7[3]

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 2007045638 A		JP 2005-228589	20050805

PRIORITY APPLN. INFO: JP 2005-228589 20050805

AN 2007-214653 [22] WPIX

AB JP 2007045638 A UPAB: 20070402

NOVELTY - Glass particles of titania-silica vitreous material are deposited at master rod (12). The rod suspended by rotation mechanism (16), is rotated at 25 rpm or more. Growth of porous titania-silica vitreous material is carried out at 5 kg or more in a state at which intrinsic frequency (f1) is more than oscillation number (f2) of rotating mechanism. The frequency (f1) is reduced and number (f2) is made unstable by weight increase of porous titania-silica vitreous material growth. Thus, manufacture of porous titania-silica vitreous material is enabled.

USE - For manufacturing porous titania-silica vitreous material used for manufacturing optical component used for optical lithography such as extreme ultraviolet light lithography.

ADVANTAGE - The porous titania-silica vitreous material of required weight is efficiently manufactured.

DESCRIPTION OF DRAWINGS - The figure shows the structural drawing of master-rod rotating mechanism of porous titania-silica vitreous material manufacturing apparatus.

Master rod (12)

Rotation mechanism (16)

Burner (18)

Front-end of master rod (20)

Support (22)

L25 ANSWER 22 OF 24	WPIX COPYRIGHT 2008	THE THOMSON CORP on STN
ACCESSION NUMBER:	2004-114776 [12] WPIX	
DOC. NO. CPI:	C2004-047057 [12]	
DOC. NO. NON-CPI:	N2004-091509 [12]	
TITLE:	Optical element such as optical fiber grating, etalon, contains glass component optionally containing alkali metal oxide, which has small optical path length change with respect to temperature change	
DERWENT CLASS:	L01; P81; V07	
INVENTOR:	KOIKE A; SUGIMOTO N	
PATENT ASSIGNEE:	(ASAG-C) ASAHI GLASS CO LTD	
COUNTRY COUNT:	1	

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
JP 2004021089	A	20040122 (200412)*	JA	6[0]		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 2004021089 A		JP 2002-178470	20020619

PRIORITY APPLN. INFO: JP 2002-178470 20020619

AN 2004-114776 [12] WPIX

AB JP 2004021089 A UPAB: 20050528

NOVELTY - The optical element contains glass component having small optical path length change with respect to temperature change. The glass component optionally contains 1% or less of alkali metal oxide.

DETAILED DESCRIPTION - The optical element suitable for light of wavelength 450-1700 nm, contains glass as a component. The glass component has dS/dT (optical path length change/temperature change) of $8.9-10^{-6}/\text{degreesC}$ or less satisfying the relation $DS/dT = dn/dT + n(\alpha)$, where dn/dT is temperature change rate at 25degreesC , α is coefficient of linear expansion at 25degreesC and n is refractive index with respect to light of wavelength 1550 nm. The glass component optionally contains 1% or less of alkali metal oxide. The glass contains 90-98.8 mass% silica, 1.2-10% fluorine, 0-8 mass% each of borate, alumina, phosphorous pentoxide and titania.

USE - Optical elements such as optical fiber grating, etalon (claimed), optical lens and prism.

ADVANTAGE - An optical element containing glass component with low alkali metal oxide content and small optical path length change with respect to temperature change, is obtained.

L25 ANSWER 23 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

ACCESSION NUMBER: 1998-232576 [21] WPIX

CROSS REFERENCE: 1999-424746

DOC. NO. CPI: C1998-072656 [21]

TITLE: Method for removing thin film using ammonium or alkali metal salt or acid salt - by applying powder or solution to a thin film formed on substrate such as automobile glass and heating, where film is oxide of e.g. cobalt or titanium on window glass of automobile

DERWENT CLASS: L01

INVENTOR: TAKIMOTO Y

PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD

COUNTRY COUNT: 23

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
EP 838442	A1	19980429	(199821)*	EN	6 [6]	
US 6153535	A	20001128	(200063)	EN		
EP 838442	B1	20010131	(200108)	EN		
DE 69704013	E	20010308	(200121)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 838442 A1		EP 1997-118450	19971023
US 6153535 A		US 1997-955742	19971022
DE 69704013 E		DE 1997-69704013	19971023
EP 838442 B1		EP 1997-118450	19971023
DE 69704013 E		EP 1997-118450	19971023

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 69704013 E	Based on	EP 838442 A

PRIORITY APPLN. INFO: JP 1996-281068
 AN 1998-232576 [21] WPIX
 CR 1999-424746
 AB EP 838442 A1 UPAB: 20050521

A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

Member (0002)

ABEQ US 6153535 A UPAB 20050521

A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

Member (0003)

ABEQ EP 838442 B1 UPAB 20050521

A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

L25 ANSWER 24 OF 24	WPIX COPYRIGHT 2008	THE THOMSON CORP on STN
ACCESSION NUMBER:	1997-402432 [37]	WPIX
DOC. NO. CPI:	C1997-129815 [37]	
DOC. NO. NON-CPI:	N1997-334735 [37]	
TITLE:	Lithographic plate material for laser direct make-up - comprises recording layer which includes particulate-dispersed thermoplastic polymer matrix, and is obtainable by pulsed-laser irradiation	
DERWENT CLASS:	A26; A89; G07; P75; S06	
INVENTOR:	ARIMATSU S; HIRAOKA H; KONISHI K; TAKIMOTO Y	
PATENT ASSIGNEE:	(NIPA-C) NIPPON PAINT CO LTD	
COUNTRY COUNT:	19	

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 9728007	A1	19970807 (199737)*	JA	33[0]		
JP 09527498	X	19990223 (199918)	JA			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9728007 A1		WO 1997-JP268	19970204
JP 09527498 X		JP 1997-527498	19970204
JP 09527498 X		WO 1997-JP268	19970204

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 09527498 X	Based on	WO 9728007 A

PRIORITY APPLN. INFO: JP 1996-18666 19960205

AN 1997-402432 [37] WPIX

AB WO 1997028007 A1 UPAB: 20050518

A lithographic plate material for laser direct make-up that comprises a recording layer is obtainable by pulsed-laser irradiation, which includes a thermoplastic polymer matrix with an absorption band in the UV region and particulates dispersed in it.

Also claimed is an offset printing method using the above lithographic plate material, including the steps of (a) manufacturing the plate material; (b) hydrophilicising the irradiated parts of the material by irradiating the surface of the recording layer with a pulsed laser to give the corresponding image; and (c) printing by application of ink for lithographic printing onto the surface of the recording layer and then printing.

USE - The lithographic plate material is for use in the printing industry.

ADVANTAGE - The recording layer of the lithographic plate material has superior print recovery properties, and such plate material provides good water retentivity in parts of the recording layer surface irradiated by laser, with hardly any scumming, thereby leading to lower printing costs and a cleaner print environment.

Member (0002)

ABEQ JP 09527498 X UPAB 20050518

A lithographic plate material for laser direct make-up that comprises a recording layer is obtainable by pulsed-laser irradiation, which includes a thermoplastic polymer matrix with an absorption band in the UV region and particulates dispersed in it.

Also claimed is an offset printing method using the above lithographic plate material, including the steps of (a) manufacturing the plate material; (b) hydrophilicising the irradiated parts of the material by irradiating the surface of the recording layer with a pulsed laser to give the corresponding image; and (c) printing by application of ink for lithographic printing onto the surface of the recording layer and then printing.

USE - The lithographic plate material is for use in the printing industry.

ADVANTAGE - The recording layer of the lithographic plate material has superior print recovery properties, and such plate material provides good water retentivity in parts of the recording layer surface irradiated by laser, with hardly any scumming, thereby leading to lower printing costs and a cleaner print environment.

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(FILE 'HOME' ENTERED AT 09:51:41 ON 26 MAR 2008)

FILE 'REGISTRY' ENTERED AT 09:51:56 ON 26 MAR 2008

L1 STR

L2 0 SEA SSS SAM L1

L3 32 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 09:54:21 ON 26 MAR 2008

L4 4 SEA ABB=ON PLU=ON L3

DIS

FILE 'REGISTRY' ENTERED AT 09:54:36 ON 26 MAR 2008
L5 STR L1

FILE 'WPIX' ENTERED AT 09:55:03 ON 26 MAR 2008
L6 0 SEA SSS SAM L5
L7 9 SEA SSS FUL L5
L8 3 SEA ABB=ON PLU=ON L7/DCR

FILE 'MARPAT' ENTERED AT 09:55:36 ON 26 MAR 2008
L9 6 SEA SSS SAM L5
L10 STR L5

FILE 'MARPAT' ENTERED AT 10:04:14 ON 26 MAR 2008
L11 3 SEA SSS SAM L10
L12 STR L10
L13 1 SEA SSS SAM L12
D SCA
L14 15 SEA SSS FUL L12

FILE 'BEILSTEIN' ENTERED AT 10:07:42 ON 26 MAR 2008
L15 0 SEA SSS SAM L12
L16 0 SEA SSS FUL L12

FILE 'CAPLUS, DISSABS, CONFSCI, WPIX' ENTERED AT 10:08:15 ON 26 MAR 2008
E KOIKE A/AU
L17 945 SEA ABB=ON PLU=ON ("KOIKE A"/AU OR "KOIKE A A G C L"/AU OR
"KOIKE A D C"/AU OR "KOIKE A M M"/AU OR "KOIKE A S C E I"/AU
OR "KOIKE A U"/AU OR "KOIKE AKIO"/AU)
E IWASHI Y/AU
L18 151 SEA ABB=ON PLU=ON ("IWASHI Y"/AU OR "IWASHI Y A G C
L"/AU OR "IWASHI YASUTOMI"/AU)
E TAKIMOTO Y/AU
L19 398 SEA ABB=ON PLU=ON ("TAKIMOTO Y"/AU OR "TAKIMOTO Y S C"/AU OR
"TAKIMOTO YASUYIKI"/AU OR "TAKIMOTO YASUYUKI"/AU OR "TAKIMOTO
YASUYUKU"/AU)
E KIKUGAWA S/AU
L20 134 SEA ABB=ON PLU=ON ("KIKUGAWA S"/AU OR "KIKUGAWA S A G C
L"/AU OR "KIKUGAWA S M M"/AU OR "KIKUGAWA SHINNYA"/AU OR
"KIKUGAWA SHINYA"/AU)
L21 1603 SEA ABB=ON PLU=ON (L17 OR L18 OR L19 OR L20)
L*** DEL2708134 S L21 OR (SI OR SILIC?)
L22 201 SEA ABB=ON PLU=ON L21 AND (SI OR SILIC?)
L23 39 SEA ABB=ON PLU=ON L22 AND (TI OR TITAN? OR TIO2)

FILE 'CAPLUS' ENTERED AT 10:12:11 ON 26 MAR 2008
D QUE L4

FILE 'WPIX' ENTERED AT 10:12:20 ON 26 MAR 2008
D QUE L8

FILE 'MARPAT' ENTERED AT 10:12:27 ON 26 MAR 2008
D QUE L14

FILE 'BEILSTEIN' ENTERED AT 10:12:34 ON 26 MAR 2008
D QUE L16

FILE 'CAPLUS, WPIX, MARPAT' ENTERED AT 10:12:41 ON 26 MAR 2008
L24 19 DUP REM L4 L8 L14 (3 DUPLICATES REMOVED)

ANSWERS '1-4' FROM FILE CAPLUS
ANSWER '5' FROM FILE WPIX
ANSWERS '6-19' FROM FILE MARPAT
D L24 IBIB ABS HITSTR 1-5
D L24 IBIB ABS QHIT 6-19

FILE 'CAPLUS, DISSABS, CONFSCI, WPIX' ENTERED AT 10:14:16 ON 26 MAR 2008
D QUE L23

L25 24 DUP REM L23 (15 DUPLICATES REMOVED)
ANSWERS '1-19' FROM FILE CAPLUS
ANSWERS '20-24' FROM FILE WPIX
D L25 IBIB ABS TOT